C Number:	C03372
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	02/13/1989

ANIMAL ID: 4001	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4001	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4002	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Carcinoma	
Note: [CARCINOMA] TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4003	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 676
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 4-11			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Hydronephrosis	Moderate
		Nephropathy	Chronic, Mild
[Hydronephrosis TGLS = 1-1+12]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4003	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 676
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder	Dilatation	Marked
	Hemorrhage	Moderate

Note: DILATATION TGLs = 2-6
Note: HEMORRHAGE TGLs = 2-6

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: PROBABLE URINARY TRACT
Animal Note: OBSTRUCTION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4004	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 2-10			
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4005	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 520
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Note: NOT APPARENT HISTOPATHOLOGICALLY.			
Note: TGL#7-NCL-REASON FOR PALE COLOR, AS NOTED AT NECROPSY,			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye	Retina	Atrophy	Marked
Note: ATROPHY TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Perivascular, Rectum	Inflammation	Chronic Active, Moderate
	Artery, Rectum	Necrosis	Fibrinoid, Mild
Kidney	Perivascular	Inflammation	Chronic Active, Moderate
	Artery	Necrosis	Fibrinoid, Mild
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 6-1			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Note: HYPERPLASIA TGLs = 2-7			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 4-12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4005	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 520
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Moderate
	Perivascular	Inflammation	Chronic Active, Moderate
	Artery	Necrosis	Fibrinoid, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Note: SKIN ABSCESS HISTOPATHOLOGICALLY.			
Note: TGL#3-CYST, RIGHT PREPUTIAL GLD,AS NOTED AT NECROPSY, IS			
Skin		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 3-10			
Testes	Bilateral, Interstit Cell	Adenoma	
Thymus			
Note: TGL#5-NCL-THYMUS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: PERIARTERITIS.
Animal Note: CAUSE OF MORBIDITY:CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4006	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 702
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node	Nose	Pancreas	Salivary Glands
Skin	Spleen	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Brain		Necrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Duodenum	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-6			
Kidney		Nephropathy	Chronic, Marked
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 1,2-10			
Note: ATROPHY TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4006	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 702
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: CHRONIC NEPHROPATHY,
Animal Note: ENTERITIS AND CEREBRAL MALACIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4007	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 5-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Granuloma	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	
	Mandibular	Leukemia Mononuclear	
Note: CYST TGLs = 2-12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4007	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4008	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 507
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: DUE TO JAUNDICE SECONDARY TO THE MONOCUC LEUKEMIA.			
Note: TGL#1-NCL-YELLOW COLOR, AS NOTED AT NECROPSY, PROBABLY			
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4008	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 507
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
Note: ADENOMA TGLs = 2-13			
Prostate		Inflammation	Chronic Active, Minimal
Skin			
Note: TGL#2-SKIN MASS,LEFT INGUINAL REGION, AS NOTED AT			
Note: NECROPSY, IS PREPUTIAL GLD ADENOMA HISTOPATHOLOGICALLY.			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4009	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 2-7			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4010	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4011	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4011	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4012	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Harderian Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Epididymis		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Sem Ves			
Note: PATHOLOGICALLY. LUMINA FILLED WITH SECRETION.			
Note: TGL#1-NCL-SEMINAL VESICLES CONSIDERED TO BE WNL HISTO-			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4012	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-11]			
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4013	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4013	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4014	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Preputial Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-12]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
Lymph Node	Mandibular	Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA TGLs = 4-7			
Nose		Inflammation	Chronic Active, Minimal
Skin			
Note: TGL#2-SKIN MASS, LEFT HEAD REGION, AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4014	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: METASTASES.
Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4015	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 372
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Penis	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Blood		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2+3			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
	Mediastinal	Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 2-5+7			
Note: LEUKEMIA MONUC TGLs = 3-2			
Mammary Gland		Hyperplasia	Cystic, Mild
Penis			
Note: TGL#1-PENIS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4015	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 372
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4016	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 1-7			
Brain		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4016	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4017	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Liver	Lymph Node	Nose
Pancreas	Salivary Glands	Spleen	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1+12]			
Lung	Alveolar Epith	Hyperplasia	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Basosquamous Tumor Benign	
Note: BASOSQU TM BGN TGLs = 1-11			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4017	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

Animal Note: SEVERE CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4018	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 517
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4019	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 472
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Lung		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 3-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Inflammation	Chronic Active, Minimal
Parathyroid Gland		Hyperplasia	Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: TGL#1-NCL-TESTICLES DID NOT APPEAR SMALL			
Note: HISTOPATHOLOGICALLY.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4019	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 472
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:SEVERE CHRONIC NEPHROPATHY,
Animal Note: CHRONIC PULMONARY HEMORRHAGE.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4020	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 726
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Pancreas	Salivary Glands	Skin	Spleen
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Brain		Compression	
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-1+11]			
Liver		Degeneration	Cystic, Moderate
		Necrosis	Coagulative, Moderate
Lung		Inflammation	Chronic Active, Mild
		Mineralization	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4020	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 726
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Glandular	Mineralization	Moderate
Note: HYPERKERATOSIS TGLs = 5-6			
Note: ACANTHOSIS TGLs = 5-6			
Testes	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
Note: ATROPHY TGLs = 1-10			

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT UREMIA.
Animal Note: CAUSE OF DEATH:SEVERE CHRONIC NEPHROPATHY WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4021	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Peripheral Nerve	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Spinal Cord	White Matter	Degeneration	Moderate
		Hemorrhage	Marked
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4021	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4022	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 586
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Hemorrhage	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 9-1]			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5,6,7,8-2+7+11+12+13			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4022	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 586
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-14			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: TGL#3-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-7			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4023	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node	Nose
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Islets, Pancreatic		Carcinoma	
Note: [CARCINOMA] TGLs = 1-11			
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 6-1]			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spinal Cord	White Matter	Degeneration	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 4,5-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4023	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#5-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL

Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4024	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 643
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Marked
Lymph Node	Mediastinal	Inflammation	Chronic Active, Mild
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Urethra	Transit Epithe	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE CHRONIC NEPHROPHY,
Animal Note: PROSTATITIS AND PERITONITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4025	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 307
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Kidney	Lung	Lymph Node	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
OBSERVATIONS			
Heart		Cardiomyopathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 1-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Tooth		Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: PRESENCE OF ODONTOGENIC CYST.
Animal Note: CAUSE OF DEATH:STARVATION SECONDARY TO

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4026	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 472
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Large - Rectum

OBSERVATIONS

Brain		Hydrocephalus	Moderate
Note: HYDROCEPHALUS TGLs = 2-5			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT HYDROCEPHALUS.
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4027	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 592
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lung			
Note: TGL#3-NCL-LUNGS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Note: HYPERKERATOSIS TGLs = 5-6			
Note: ACANTHOSIS TGLs = 5-6			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4027	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 592
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: WITH RESULTANT HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4028	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-1]			
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
		Inflammation	Chronic Active, Marked
Pancreas	Acinus	Atrophy	Minimal
		Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4029	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Islets, Pancreatic	Nose	Parathyroid Gland	Tooth
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Epididymis		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
	Rectum	Leukemia Mononuclear	
	Colon	Parasite Metazoan	
Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4029	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4030	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			
Thyroid Gland	Follicle	Cyst	
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4031	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4031	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4032	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4033	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 709
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Lymph Node	Nose
Pituitary Gland	Salivary Glands	Skin	Thymus
Tooth	Trachea		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral, Myeloid Cell	Hyperplasia	Marked
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Hematopoietic Cell Proliferation	Moderate
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Thrombosis	
Note: HEMA CELL PROL TGLs = 2-11			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 4-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4033	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 709
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF DEATH: ATRIAL AND SPLENIC THROMBOSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4034	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH
Animal Note: RESULTANT COMPRESSION OF BRAIN AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4034	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4035	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Moderate
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: IS ULCERATED AND INFLAMMED.			
Note: FIBROSARC TGLs = 2-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4035	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EPIDERMAL SURFACE COVERING CUTANEOUS FIBROSARCOMA			
Spleen		Hemangiosarcoma	
		Leukemia Mononuclear	
Note: HEMANGIOSARC TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 5-10			
Note: ADENOMA TGLs = 4,6-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4036	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 701
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum	Inflammation	Chronic Active, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4036	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 701
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Salivary Glands		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 1-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4037	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Ear	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Marked
	Medulla	Hyperplasia	Mild
Brain		Compression	
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
Intest Small			
Note: TGL#6-NCL-JEJUNAL WALL CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lung		Carcinoma	Metastatic (Thyroid Gland)
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Fungus	
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Moderate
Parathyroid Gland		Hyperplasia	Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Fibrosis	Moderate
Stomach	Glandular	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4037	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Glandular	Necrosis	Coagulative, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 2,3-10			
Note: TGL#3-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 4-7			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:SEVERE, CHRONIC NEPHROPATHY,
Animal Note: C-CELL CARCINOMA WITH PULMONARY METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4038	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
		Inflammation	Chronic Active, Marked
		Necrosis	Coagulative, Marked
Note: INFLAMMATION TGLs = 3-11+12			
Note: NECROSIS TGLs = 1-11+12			
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4039	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4040	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Pancreas	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 6-1			
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-11]			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Lipoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4040	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LIPOMA TGLs = 1-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-10			
Thyroid Gland	Bilateral, C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4041	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Compression	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1+12			
Liver		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Carcinoma	
		Inflammation	Chronic Active, Mild
Note: CARCINOMA TGLs = 1-11			
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4041	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4042	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Salivary Glands	Skin	Spleen	Stomach - Glandular
Testes	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Moderate
Note: BASOPH FOCUS TGLs = 1-12			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-11			
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4042	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: SEVERE, CHRONIC NEPHROPHY,
Animal Note: CHRONIC-ACTIVE GASTRITIS AND PROSTATITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4043	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 155
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
		Hemorrhage	Marked
		Inflammation	Chronic Active, Mild
Note: HEMORRHAGE TGLs = 2-10			
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Urin Bladder			
Note: TGL#1-NCL-URINARY BLADDER CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4044	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM BGN TGLs = 1-12			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4044	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Note: FIBROSIS TGLs = 8-11			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: TGL#4-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4045	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 512
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 2-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:THYROID FOLLICULAR CELL
Animal Note: ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4046	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 719
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Inflammation	Chronic Active, Mild
Nose		Fungus	
	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 1-10			
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4046	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 719
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4047	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 5-7			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node	Deep Cervical, Mandibular, Mediastinal	Fibrous Histiocytoma	Metastatic (Skin)
Note: [FIB HISTIOCYT] TGLs = 1,3-2+11			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin	Subcut Tiss	Fibrous Histiocytoma	
Note: [FIB HISTIOCYT] TGLs = 2-12			
Spleen		Fibrosis	Mild
Note: FIBROSIS TGLs = 4-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4047	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MULTIPLE METASTASES. MALIG. PHEOCHROMOCYTOMA.
Animal Note: CAUSE OF DEATH:CUTANEOUS FIBROSARCOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4048	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4049	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 674
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4049	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 674
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-12		
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 3-10		
Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4050	**TRT#:** 1	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODES: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Adenoma	
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Note: ADENOMA TGLs = 1-12			
Prostate		Inflammation	Chronic Active, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 2-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4051	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 5-7			
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 1-11]			
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
[Fibrosis TGLS = 4-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4051	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 2-10
[Adenoma TGLS = 2,3-10]

Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4052	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-12			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2+3			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4052	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-12			
Thymus			
Note: TGL#6-ENLARGED THYMUS,AS NOTED AT NECROPSY,IS			
Note: ENLARGED MEDIASTINAL LYMPH NODES HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4053	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5,6,7-11+12+13+15			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4053	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4054	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Salivary Glands

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-11			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: MISSING.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4054	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4055	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosis	Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4056	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: NOTED CLINICALLY AND AT NECROPSY.
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE
[Atrophy TGLS = 3-12]
[Cataract TGLS = 2-12]

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate

[Leukemia Mononuclear TGLS = 8-1]

Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 7-4]

Lung		Leukemia Mononuclear	
Lymph Node			

Note: TGL#10-NCL-MESENTERIC L N CONSIDERED TO BE WNL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4056	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 9-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4057	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Prostate	Salivary Glands
Skin	Spleen	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Necrosis	Coagulative, Moderate
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3,4-1+11]			
Liver		Degeneration	Cystic, Moderate
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 1-10			
[Adenoma TGLS = 2-10]			
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4057	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Carcinoma
Note: CARCINOMA TGLs = 5-7		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4058	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 605
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4059	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 711
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: ATROPHY TGLs = 2-11			
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Carcinoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Note: DEGEN TGLs = 6-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4059	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 711
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin			
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: LEUKEMIA.			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR CELL			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4060	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 689
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Necrosis	Marked
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-2+5+7]			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4060	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 689
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4061	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 577
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Brain		Compression	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Lung			
Note: TGL#1-NCL-LUNGS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4061	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 577
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4062	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Hydrocephalus	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-5+7			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4062	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: TGL#5-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HYPERPLASIA TGLs = 5-10			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 6-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4063	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart	Atrium	Thrombosis	
Note: THROMBUS TGLs = 7-4			
Intestine Large	Cecum	Inflammation	Chronic Active, Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 3-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Saliv Glands			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4063	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#1-SALIVARY GLDS CONSIDERED TO BE WNL		
Testes	Bilateral, Interstit Cell	Adenoma
Note: TGL#5-TESTICULAR SIZE CONSIDERED TO BE WNL		
Note: HISTOPATHOLOGICALLY.		
Note: ADENOMA TGLs = 4,5-10		
Thyroid Gland	C Cell	Adenoma
		Ultimobranchial Cyst
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF MORBIDITY:CHRONIC NEPHROPATHY,
Animal Note: ATRIAL THROMBOSIS AND TYPHYLITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4064	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 720
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hypertrophy	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
[Cataract TGLS = 2-12]			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 12-1			
Liver		Degeneration	Cystic, Moderate
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: [HEPATOCLR ADEN] TGLs = 14,15-14+15			
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4064	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 720
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6,11,13-2+5+7+11+13			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 10-16			
[Fibrosis TGLS = 9-16]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 7-10			
[Adenoma TGLS = 8-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4065	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland	Bilateral	Adenoma	
		Inflammation	Chronic Active, Marked
Note: ADENOMA TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	Bilateral, C Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4066	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
	Perivascular	Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4066	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic Active, Moderate
Note: CARCINOMA TGLs = 1-11			
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: NEPHROPATHY.PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4067	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM BGN TGLs = 6-7			
Blood		Leukemia Mononuclear	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Epididymis	Perivascular	Inflammation	Chronic Active, Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-4			
Lung	Mediastinum, Perivascular	Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4067	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 4-13			
Pancreas	Acinus	Atrophy	Moderate
	Perivascular	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 10-14			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-11			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 3-10			
[Adenoma TGLS = 2-10]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Moderate
Note: [ADENOCARC] TGLs = 9-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4068	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Capsule, Cortex	Mesothelioma Malignant	
	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 6-7			
Blood		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-1]			
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mesentery		Mesothelioma Malignant	
Pancreas	Acinus	Atrophy	Moderate
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4068	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-11]			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Stomach	Glandular	Mesothelioma Malignant	
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Urinary Bladder		Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: SEVERE,CHRONIC NEPHROPATHY,MAL MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4069	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Coagulating Gland		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 6-11			
Note: TGL#6-BOTH PROSTATE GLD & COAGULATING GLD INVOLVED			
Note: WITH MARKED INFLAMMATORY PROCESS.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Marked
Sem Ves			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4069	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#7-NCL-SEMINAL VESICLES CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.ENLARGEMENT,AS NOTED AT NECROPSY,			
Note: IS DUE TO ENGORGEMENT WITH SECRETION.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: WNL HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE			
[Adenoma TGLS = 4-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4070	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,6-4+11]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2,4-2+5+7+12			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4070	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 8-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED AT NECROPSY,IS PROBABLY DUE TO
Animal Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4071	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node	Nose	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Marked
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4071	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Mineralization	Moderate
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4072	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: TGL#6-NCL-PANCREATIC L N MISSING.			
[Leukemia Mononuclear TGLS = 8-14]			
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4072	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 7-16			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 2-15			
[Keratoacanthoma TGLS = 1-13]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Note: TGL#4-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4073	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 571
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland	Skin

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: CELL LEUKEMIA.			
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4073	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 571
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4074	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 718
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Glandular
Thyroid Gland	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4074	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 718
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 6-6			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4075	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 2-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4075	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-12]			
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4076	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Testes	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
		Hydrocephalus	Moderate
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4076	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:PITUITARY CARCINOMA
Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4077	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
		Inflammation	Chronic Active, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4077	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
Note: [LEUKEMIA MONUC] TGLs = 2-11		
Testes	Bilateral, Interstit Cell	Adenoma
Note: [ADENOMA] TGLs = 3,4-10		
Thyroid Gland	C Cell	Adenoma
Note: IS PARATHYROID GLD ADENOMA HISTOPATHOLOGICALLY.		
Note: TGL#1-ENLARGED LEFT THYROID GLD,AS NOTED AT NECROPSY,		
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4078	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT:THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4078	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Leukemia Mononuclear	
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 3-11			
[Leukemia Mononuclear TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ADENOCARC TGLs = 6-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4079	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 6-11			
[Pheochromocytoma Benign TGLS = 6-11]			
Heart		Cardiomyopathy	Chronic, Mild
		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
		Inflammation	Chronic, Mild
Lung	Alveolar Epith	Hyperplasia	Marked
	Alveolar Epith	Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 1-3			
Note: HYPERPLASIA TGLs = 1-3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4079	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Minimal
		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Adenoma	
		Adenoma	
		Inflammation	Chronic Active, Mild
		Inflammation	Chronic, Mild
Note: ADENOMA TGLs = 7-12			
[Adenoma TGLS = 7-12]			
Spleen		Fibrosis	Moderate
		Fibrosis	Moderate
Note: FIBROSIS TGLs = 2-11			
[Fibrosis TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4,5-10			
[Adenoma TGLS = 3,4,5-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4080	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 622
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-NCL-EYE SIZE CONSIDERED TO BE WNL			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Cyst	
	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Intermed	Cyst	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4080	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 622
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4081	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Marked
Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4081	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 3-10			
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4082	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood	Bone	Bone Marrow
Brain	Coagulating Gland	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tongue	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Renal Tubule	Adenoma	
	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 1-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Salivary Glands		Adenoma	
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 5-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-RIGHT TESTICLE SIZE CONSIDERED TO BE WNL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4082	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4083	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 507
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
Note: NUCLEAR CELL LEUKEMIA.			
Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: TGL#1-YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Cyst	
	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: LEUKEMIA MONUC TGLs = 3-2			
Preputial Gland		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4083	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 507
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 5-10			
Note: HYPERPLASIA TGLs = 5-10			
Note: TGL#4-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4084	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Islets, Pancreatic	Lymph Node	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 1,2-10			
Note: TGL#2-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: WISE WAS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4084	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 633
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC TGLs = 4-13
Note: TGL#5-NCL-RIGHT THYROID GLD WAS AUTOLYTIC BUT OTHER-

Tongue Squamous Cell Papilloma
[Squamous Cell Papilloma TGLS = 6-12]

PRIMARY CAUSE OF DEATH -

Animal Note: CONTRIBUTING FACTOR: PNEUMONIA.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4085	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 707
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Hemorrhage	Marked
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4085	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 707
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Acanthosis	Mild
		Hyperkeratosis	Mild
Note: ACANTHOSIS TGLs = 1-11			
Note: HYPERKERATOSIS TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4086	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 8-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 2-4+13			
Note: LEUKEMIA MONUC TGLs = 1-4+13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-11			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4086	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Moderate
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#6-NCL-LEFT TESTICLE SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4087	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 416
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum	Mammary Gland

OBSERVATIONS

Bone	Femur	Osteosarcoma	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 1-11]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:OSTEOSARCOMA, FEMUR.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4088	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 636
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Moderate
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE			
Note: TGL#1-NCL-YELLOW COLOR,AS NOTED CLINICALLY AND AT			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
Mammary Gland		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4088	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 636
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
Note: HYPERPLASIA TGLs = 2-12			
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Urinary Bladder		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4089	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen			
Note: TGL#2-NCL-SPLENIC DEFORMITY NOT APPARENT			
Note: HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,3-10+11]			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4090	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Infarct	Moderate
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2,3-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-12			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
Note: ADENOMA TGLs = 5-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Squamous Cell Papilloma	
Note: TGL#1-SKIN MASS,VENTRAL THORACIC REGION,AS NOTED AT			
Note: PAPILLOMA SQUA TGLs = 4-11			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4090	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 6-6			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.
Animal Note: CONTRIBUTING FACTORS:SEVERE,CHR-ACTIVE
Animal Note: GASTRITIS.
Animal Note: POSSIBLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4091	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-7			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-11]			
Spleen		Fibrosarcoma	
		Fibrosis	Marked
Note: FIBROSARC TGLs = 3-13			
[Fibrosis TGLS = 7-13]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4091	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5,6-10+12]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4092	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Coagulating Gland		Inflammation	Chronic Active, Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
		Ultimobranchial Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4092	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: SEVERE,CHRONIC NEPHROPATHY.
Animal Note: SEVERE PROSTATITIS & COAGULATING GLD ADENITIS.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4093	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 435
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: AND HYDROCEPHALUS.
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4094	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Thymus	Tooth
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Capsule, Cortex	Mesothelioma Malignant	
Epididymis		Mesothelioma Malignant	
Intestine Large	Cecum	Mesothelioma Malignant	
	Colon	Mesothelioma Malignant	
	Rectum	Mesothelioma Malignant	
Kidney		Mesothelioma Malignant	
		Nephropathy	Chronic, Moderate
Liver		Mesothelioma Malignant	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 2-11			
Pancreas		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Vacuolization Cytoplasmic	Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	
Stomach	Forestomach	Mesothelioma Malignant	
	Glandular	Mesothelioma Malignant	
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4094	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.
Note: TGL#2-TESTICULAR SIZE CONSIDERED TO BE WNL
Note: ADENOMA TGLs = 3,4-10

Thyroid Gland	C Cell	Adenoma
Urinary Bladder		Mesothelioma Malignant

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:DISSEMINATED MAL MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4095	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 501
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Nose	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Atrophy TGLS = 1-11]			
[Cataract TGLS = 2-11]			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Lymph Node			
Note: TGL#'S 3&4-NCL-MANDIBULAR AND MEDIASTINAL LYMPH NODES			
Note: CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Pancreas	Acinus	Atrophy	Mild
	Perivascular	Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4095	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 501
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 6-10			
[Adenoma TGLS = 6-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: POSSIBLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4096	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 587
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: TGL#1-NCL-YELLOW COLOR,AS NOTED CLINICALLY AND AT			
Heart		Cardiomyopathy	Chronic, Mild
	Ventricle	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mandibular	Necrosis	Moderate
	Mesenteric	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4096	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 587
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2,3,6-2+5+7+11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-13			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4097	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 2-4			
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 1-11]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4097	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]			
[Hyperplasia TGLS = 3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4098	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 720
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Note: TGL#3-NCL-ENLARGEMENT,AS NOTED AT NECROPSY, DUE TO			
Note: ENGORGEMENT WITH BLOOD.			
Note: THROMBUS TGLs = 4-4			
Intestine Large	Rectum	Inflammation	Chronic Active, Marked
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 8-1+15			
Liver		Degeneration	Cystic, Mild
Lung		Fibrosarcoma	Metastatic (Skin)
Note: FIBROSARC TGLs = 1-2+3			
Lymph Node	Lumbar	Fibrosarcoma	Metastatic (Skin)
	Mesenteric	Hemangiosarcoma	
Note: FIBROSARC TGLs = 6-11			
Note: HEMANGIOSARC TGLs = 7-14			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4098	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 720
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSARC TGLs = 5-12+13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:CUTANEOUS FIBROSARCOMA WITH
Animal Note: MULTIPLE METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4099	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Liver	Lung
Lymph Node	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin			
Note: TGL#1-SKIN MASS,LEFT SIDE OF HEAD,AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4099	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-11]

PRIMARY CAUSE OF DEATH -

Animal Note: ZYMBALS GLD CARCINOMA.
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4100	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-7			
Preputial Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Marked
Note: DILATATION TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4100	**TRT#:** 2	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-11			
Prostate		Inflammation	Chronic Active, Marked
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 5-10			
Note: ATROPHY TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4101	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4101	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-10

Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4102	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 6-15			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Myxoma	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 5-1			
Note: MYXOMA TGLs = 7-13			
Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4102	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Basosquamous Tumor Benign	
Note: BASOSQU TM BGN TGLs = 1-14			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-12]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4103	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4103	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2,3,9,10-2+5+7+12+13			
Pancreas	Acinus	Atrophy	Minimal
Note: LARGED PANCREATIC LYMPH NODE HISTOPATHOLOGICALLY.			
Note: TGL#9-PANCREATIC MASS,AS NOTED AT NECROPSY,IS EN-			
Preputial Gland		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 8-14			
[Leukemia Mononuclear TGLS = 7-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 5-10			
[Adenoma TGLS = 4-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4104	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Harderian Gland	Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 6-1			
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2,3-2+11+12			
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Marked
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4104	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 8-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4105	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 691
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Brain		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 5-5			
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4105	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 691
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			
[Adenoma TGLS = 4-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4106	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 736
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate	Salivary Glands	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Stomach - Forestomach	Stomach - Glandular	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 8-13			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-2+11			
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4106	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 736
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-12			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CONTRIBUTING FACTOR:NECROTIZING ENTERITIS.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4107	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 703
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Small - Duodenum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Tooth	Trachea	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Intest Large			
Note: TGL#4-NCL-CECUM SEVERELY AUTOLYZED.			
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Marked
[Adenoma TGLS = 1-11]			
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4108	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Mesentery		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin		Inflammation	Chronic Active, Marked
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Stomach	Forestomach	Acanthosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4108	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10+12			
Note: TGL#1-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4109	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Marked
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
	Perivascular	Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
Note: HYPERPLASIA TGLs = 2-11			
Note: INFLAMMATION TGLs = 2-11			
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 5-12			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4109	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-10			
Note: ATROPHY TGLs = 4-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4110	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Preputial Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: CUTANEOUS FIBROSARCOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4111	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Epithelium, Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Neurofibrosarcoma	
[Neurofibrosarcoma TGLS = 1-11]			
Spleen			
Note: TGL#4-NCL-SPLEEN CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Testes	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4111	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 3-10			
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4112	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
Note: FIBROSIS TGLs = 3-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4112	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#2-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL
Note: ADENOMA TGLs = 1-10

Thyroid Gland	C Cell	Hyperplasia	Minimal
Trachea		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4113	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 536
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: YELLOW COLOR,AS NOTED CLINICALLY AND AT NECROPSY, IS			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: NUCLEAR CELL LEUKEMIA.			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4113	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 536
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Stomach	Glandular	Leukemia Mononuclear	
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY, IS
Animal Note: NUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4114	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic
Nose	Pancreas	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum
Lymph Node - Mesenteric	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 6-1			
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 1			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Sem Ves			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4114	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 737
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.ENLARGEMENT,AS NOTED AT NECROPSY,			
Note: TGL#5-NCL-SEMINAL VESICLES CONSIDERED TO BE WNL			
Note: IS DUE TO ENGORGEMENT WITH SECRETION.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 4-10			
[Atrophy TGLS = 3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CONTRIBUTING FACTOR:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4115	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Note: AT NECROPSY,NOT APPARENT HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-CAUSE OF GRANULAR APPEARANCE OF LIVER,AS NOTED			
Lymph Node			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-MANDIBULAR LYMPH NODE CONSIDERED TO BE WNL			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen			
Note: TGL#3-NCL-SPLEEN CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4115	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4116	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 720
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 3-11]			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-10			
Note: HYPERPLASIA TGLs = 2-10			
Note: ATROPHY TGLs = 1-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:CUTANEOUS FIBROSARCOMA,
Animal Note: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4117	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 382
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4118	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-2+11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Hemorrhage	Marked
		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin			

Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4118	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,AS NOTED CLINICALLY AND AT NECROPSY, IS			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4119	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate

Note: TGL#2-NCL-LEFT EYE CONSIDERED TO BE WNL HISTOPATHO-
Note: CATARACT TGLs = 1-11
Note: LOGICALLY.YELLOW COLOR,AS NOTED CLINICALLY AND AT
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO
Note: THE MONONUCLEAR CELL LEUKEMIA.

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 5,6-4+13
Note: DEGEN TGLs = 6-13

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 3-2

Mammary Gland		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4119	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#7-TESTICULAR SIZE IS CONSIDERED TO BE WNL HISTO-			
Note: PATHOLOGICALLY CONSIDERING THE PRESENCE OF THE ICA'S.			
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-
Animal Note: NUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4120	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 4-11			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4120	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#3-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL
Note: HISTOPATHOLOGICALLY.
[Adenoma TGLS = 1,2-10]

Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4121	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 565
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-SECTIONS OF BRAIN CONSIDERED TO BE WNL			
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4121	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 565
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: NUCLEAR CELL LEUKEMIA.			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 3-10			
Note: TGL#2-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4122	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tooth	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Duodenum	Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-4			
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4,5,9,10-2+11+12+13+14			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Leukemia Mononuclear	
Parathyroid Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4122	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Note: LOGIC EXAMINATION.			
Note: ONLY ONE PREPUTIAL GLD AVAILABLE FOR HISTOPATHO-			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-15]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 7-10			
Note: ADENOMA TGLs = 6,7-10			
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4123	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 4-10			
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4124	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 5-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2,3,4-2+11+12+14			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4124	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4125	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Blood		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9,12-2+14]			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 1-13			
Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4125	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Skin			
Note: TGL #'S 10&11-SKIN MASSES,LEFT AND RIGHT SCROTUM,AS			
Note: NOTED AT NECROPSY,ARE EXTENTION OF THE MAL MESOTHELIOMA			
Note: INTO THE SCROTAL SAC HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7,8-1			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Bilateral	Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 10,11-11+12			
Note: ATROPHY TGLs = 4-10			
[Adenoma TGLS = 2,3-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4126	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 626
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder			

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-RIGHT EYE CONSIDERED TO BE WNL			
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4126	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 626
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Seminal Vesicle		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 5-10			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Stomach	Glandular	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4127	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 5-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4127	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: PATHOLOGICALLY CONSIDERING THE PRESENCE OF THE ICA'S.			
Note: ADENOMA TGLs = 4-10			
Note: TGL#3-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL HISTO-			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
Note: ADENOCARC TGLs = 6-7			
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4128	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLININCALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 5-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Sem Ves			
Note: ENGORGEMENT WITH SECRETORY PRODUCT.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4128	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PATHOLOGICALLY.ENLARGEMENT,AS NOTED AT NECROPSY, DUE TO			
Note: TGL#4-NCL-SEMINAL VESICLES CONSIDERED TO BE WNL HISTO-			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Note: TGL#3-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4129	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: YELLOW COLOR,AS NOTED CLINICALLY AND AT NECROPSY, IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA TGLs = 6-13			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-12			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: TGL#6-ENLARGED PANCREATIC L N,AS NOTED AT NECROPSY, IS			
Note: PANCREATIC ISLET CELL CARCINOMA HISTOPATHOLOGICALLY.			
Note: LEUKEMIA MONUC TGLs = 3,7,10-14+16+18			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4129	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 2-15			
Mesentery		Inflammation	Chronic Active, Moderate
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Skin			
Note: YELLOW COLOR,AS NOTED CLINICALLY AND AT NECROPSY, IS			
Note: CELL LEUKEMIA.			
Note: TGL#2-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-10]			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-14			
Thyroid Gland		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4130	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Epididymis		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,3,9,12-2+5+7+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4130	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
Skin			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY,IS PROBABLY DUE TO			
Spleen		Leukemia Mononuclear	
Note: TGL#8-NCL-SPLENIC DEFORMITY NOT APPARENT			
Note: HISTOPATHOLOGICALLY.			
[Leukemia Mononuclear TGLS = 6,7-13]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 11-10			
Note: TGL#10-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-11			
PRIMARY CAUSE OF DEATH	-		
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4131	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 4-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4131	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4,5-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4132	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 7-7			
Note: TGL#6-NCL-SIZE OF LEFT ADRENAL GLD CONSIDERED TO BE			
Note: WNL HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-11]			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4132	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 4-12			
[Leukemia Mononuclear TGLS = 3-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4133	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 230
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Islets, Pancreatic	Liver	Lung	Lymph Node
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Spleen	Testes	Thymus	Thyroid Gland
Tooth	Trachea		
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular
OBSERVATIONS			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Bacterium	
		Inflammation	Chronic Active, Mild
	Renal Tubule	Mineralization	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Prostate		Inflammation	Chronic Active, Moderate
Urinary Bladder		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-6]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:URINARY TRACT INFECTION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4134	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 444
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4135	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 646
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Pancreas	Prostate
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Carcinoma	Multiple
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1+11			
[Nephropathy TGLS = 4,5-11]			
Liver		Degeneration	Cystic, Minimal
Lymph Node	Mandibular	Cyst	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THR RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4135	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 646
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: OF THE INTERSTITIAL CELL ADENOMAS.			
Note: ADENOMA TGLs = 1-10			
Note: TGL#2-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY TAKING INTO ACCOUNT THE PRESENCE			
Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth	Gingiva	Squamous Cell Carcinoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4136	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4137	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 2-7			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 1-11			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4137	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4138	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye			
Note: TGL#7-NCL-EYES CONSIDERED TO BE WHL HISTOPATHOLOGICALLY.			
Note: CELL LEUKEMIA.			
Note: IS PROBABLY DUE TO ANEMIA SECONDARY TO THE MONONUCLEAR			
Note: PALE APPEARANCE,AS NOTED CLINICALLY AND AT NECROPSY,			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4,5,6-2+5+7+12+13]			
Mammary Gland		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4138	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Note: CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY, IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4139	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 368
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland	Bone	Bone Marrow	Epididymis
Esophagus	Harderian Gland	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Thyroid Gland			
OBSERVATIONS			
Brain		Hydrocephalus	Marked
		Oligodendroglioma Malignant	
Note: OLIGODENDR MAL TGLs = 1-5			
Note: HYDROCEPHALUS TGLs = 2-5			
Heart		Cardiomyopathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:BRAIN NEOPLASM.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4140	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lung		Metaplasia	Osseous, Minimal
Lymph Node			
Note: TGL#6-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Sem Ves			
Note: TGL#4-NCL-SEMINAL VESICLES CONSIDERED TO BE WNL HISTO-			
Note: PATHOLOGICALLY.ENLARGEMENT,AS NOTED AT NECROPSY, DUE TO			
Note: ENGORGEMENT WITH SECRETORY PRODUCT.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4140	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 1-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
[Adenoma TGLS = 2-10]			
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA TGLs = 5-13			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4141	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 728
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Heart	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Prostate	Salivary Glands
Skin	Spleen	Thymus	Tooth
Trachea			

MISSING

Intestine Small - Ileum	Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Kidney	Parathyroid Gland	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Urinary Bladder	

OBSERVATIONS

Liver		Degeneration	Cystic, Minimal
		Necrosis	Coagulative, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 1-11			
Mesentery		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 3-12]			
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: TGL#1-SKIN MASS,LEFT THORAX,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4141	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 728
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4142	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4142	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4143	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 611
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: RGL#1-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
[Adenoma TGLS = 1,2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4143	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 611
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4144	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Note: EXAMINATION.			
Note: ONLY ONE PREPUTIAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Note: INFLAMMATION TGLs = 3-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4144	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4145	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 660
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4145	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 660
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4146	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Parathyroid Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[Fibroadenoma TGLS = 1-11]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT LATERAL THORACIC REGION,AS NOTED			
Note: AT NECROPSY,IS MAMMARY GLD FIBROADENOMA			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4146	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Cyst	
[Adenoma TGLS = 3,4-10+12]			
[Cyst TGLS = 2-12]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4147	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 674
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4147	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 674
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Marked
Skin		Basosquamous Tumor Benign	
Note: [BASOSQU TM BGN] TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#3-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4148	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum	Parasite Metazoan	
	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: DEGEN TGLs = 4-12			
Note: LEUKEMIA MONUC TGLs = 4,5-4+12			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-11			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4148	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4149	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 395
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PREPUTIAL GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4150	**TRT#:** 3	**SEX:** Male	**DAY ON TEST:** 497
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Islets, Pancreatic
Liver	Lymph Node	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Urinary Bladder	
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		
OBSERVATIONS			
Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
[Adenocarcinoma TGLS = 2-11]			
Trachea		Adenocarcinoma	Metastatic (Thyroid Gland)
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:THYROID GLD FOLLICULAR
Animal Note: TO TRACHEA, AND PNEUMONIA.
Animal Note: CELL CARCINOMA WITH METASTASIS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4151	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hemorrhage	Moderate
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4151	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4152	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#3-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4153	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 453
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Ear	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
Ear			
Note: TGL#1-MASS,LEFT EAR,AS NOTED AT NECROPSY,IS ZYMBALS			
Note: GLAND CARCINOMA HISTOPATHOLOGICALLY.			
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: TGL#3-NCL-EYE CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4153	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 453
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1-11

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4154	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10+11]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4155	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 695
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 5-11]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukocytosis	
		Necrosis	Coagulative, Mild
Lung		Leukocytosis	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-13]			
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 3,4-10			
[Adenoma TGLS = 3-10]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4155	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 695
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PROPABLE TERMINAL SEPTICEMIA.
Animal Note: CONTRIBUTING FACTOR:PREPUTIAL GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4156	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung	Alveolar Epith	Hyperplasia	Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10+11]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4157	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 1-12			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 6-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4157	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY>			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#3-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4158	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 503
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Dilatation	Marked
	Jejunum	Inflammation	Chronic Active, Marked
	Jejunum	Metaplasia	Osseous, Moderate
Note: DILATATION TGLs = 8-18			
Kidney		Necrosis	Coagulative, Marked
		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
	Subcut Tiss	Fibrosarcoma	
		Hyperplasia	Basal Cell, Moderate
Note: HYPERPLASIA TGLs = 2,3-7+11+12+13+14+15+16+17+19+20			
Note: FIBROSARC TGLs = 4,5,6,7-15+17+19+20			
Note: BASAL CEL ADEN TGLs = 1,2,3-12+13+14+16			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4158	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 503
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: MULTIPLE FOCI OF BASAL CELL HYPERPLASIA.
Animal Note: CAUSE OF MORBIDITY:CUTANEOUS FIBROSARCOMA,
Animal Note: MULTIPLE CUTANEOUS BASAL CELL ADENOMAS,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4159	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 10-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 5-17			
Kidney		Leukemia Mononuclear	
		Nephroblastoma	
		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 9,11-1+12			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 6-3+13			
Note: LEUKEMIA MONUC TGLs = 6-3+13			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4159	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Skin	Vein	Dilatation	Marked
Note: DILATATION TGLs = 1-15			
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-11			
Stomach	Glandular	Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 12-14			
Note: TGL#13-NCL-THE MULTIPLE FOCI SEEN IN THE GLANDULAR			
Note: HISTOPATHOLOGICALLY.			
Note: STOMACH,AS NOTED AT TRIM,NOT APPARENT			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4160	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: LEUKEMIA MONUC TGLs = 4,5-4+12			
[Leukemia Mononuclear TGLS = 5-12]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4160	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ADENOMA TGLs = 1-10			
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY
Animal Note: TO THE MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW BODY COLOR,AS NOTED CLINICALLY AND AT
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4161	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 739
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Duodenum	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 6-6			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 7-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4161	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 739
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 5-10			
Note: ADENOMA TGLs = 4,5-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4162	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-4			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-2+11			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
		Inflammation	Chronic Active, Mild

Note: NOTED CLINICALLY AND AT NECROPSY.
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4162	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Stomach	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: SEVERE,CHRONIC NEPHROPATHY,CHRONIC-ACTIVE
Animal Note: GASTRITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4163	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Eye
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small	Islets, Pancreatic	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Eye			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: TGL#1-NCL-YELLOW COLOR,AS NOTED CLINICALLY AND AT			
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5,7-2+5+7+11]			
Nose		Fungus	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4163	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Leukemia Mononuclear	
Skin			
Note: CELL LEUKEMIA.			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Testes	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4164	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 653
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Parathyroid Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Small	Ileum	Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 1-6+11			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4164	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 653
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: NECROTIZING ENTERITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4165	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: CYST TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4165	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 7-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4166	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	Multiple
		Inflammation	Chronic, Mild
[Hepatodiaphragmatic Nodule TGLS = 2,3-11]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Fungus	
		Inflammation	Chronic Active, Marked
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4167	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 6-1			
[Leukemia Mononuclear TGLS = 6-1]			
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-2+3]			
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4167	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,7-2+5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 4-10			
Thymus			
Note: ENLARGED MEDIASTINAL LYMPH NODES HISTOPATHOLOGICALLY.			
Note: TGL#7-ENLARGED THYMUS,AS NOTED AT NECROPSY,IS REALLY			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4168	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 479
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum	Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin	Subcut Tiss	Leiomyosarcoma	
Note: [LEIOMYOSAR] TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:CUTANEOUS FIBROSARCOMA,
Animal Note: SCROTUM.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4169	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Parathyroid Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#1-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4170	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Parathyroid Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 6-7			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN [Cataract TGLS = 1-12]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5,8-1			
Liver		Basophilic Focus	
Lymph Node	Renal	Infiltration Cellular	Histiocyte, Moderate
Note: INFILTRAT CELL TGLs = 7-11			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4170	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 4-10			
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4171	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 276
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum	Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Thyroid Gland

OBSERVATIONS

Brain		Compression	
		Hemorrhage	Mild
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Note: ADENOMA TGLs = 1-7			
[Adenoma TGLS = 1-7]			
Preputial Gland		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: THALMUS,HYDROCEPHALUS AND CEREBRAL
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4171	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 276
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: RESULTANT HEMORRHAGE,COMPRESSION OF HYPO-
Animal Note: HEMORRHAGE.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4172	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 565
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,4-2+5+7+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4172	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 565
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Leukemia Mononuclear	
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4173	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 395
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4174	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Salivary Glands	Skin
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4174	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Note: ACANTHOSIS TGLs = 5-6			
Note: HYPERKERATOSIS TGLs = 5-6			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: SEVERE,CHRONIC NEPHROPATHY,PITUITARY
Animal Note: ADENOMA WITH RESULTANT COMPRESSION OF
Animal Note: HYPOTHALMUS AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4175	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 612
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE
Note: NOTED CLINICALLY AND AT NECROPSY.
Note: CATARACT TGLs = 1-11

Heart		Cardiomyopathy	Chronic, Moderate
		Inflammation	Chronic Active, Moderate
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
		Nephropathy	Chronic, Minimal

Note: NECROSIS TGLs = 3-1
Note: LEUKEMIA MONUC TGLs = 3-1

Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	

Note: MANDIBULAR LYMPH NODE: NORMAL.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4175	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 612
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4176	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CATARACT TGLs = 1-11			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4176	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 628
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 6-10			
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 5-7			
Note: ADENOCARC TGLs = 5-7			
PRIMARY CAUSE OF DEATH	-		

Animal Note: SEVERE,CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4177	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 661
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Nose	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Peripheral Nerve	Sciatic	Degeneration	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spinal Cord	White Matter	Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4177	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 661
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 1-10			
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4178	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Minimal
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Mild
Lung	Alveolar Epith	Hyperplasia	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenoma	
		Hyperplasia	Cystic, Minimal
[Adenoma TGLS = 2-11]			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
		Inflammation	Chronic Active, Mild
Skin			
Note: TGL#2-SKIN NODULE,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD ADENOMA HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4178	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4179	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 1-4			
Intestine Large	Cecum	Inflammation	Chronic Active, Mild
	Colon	Necrosis	Coagulative, Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Inflammation	Suppurative, Marked
	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4179	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: COLITIS.
Animal Note: SEVERE,CHRONIC NEPHROPATHY,NECROTIZING

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4180	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4180	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4181	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 622
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-4			
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4181	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 622
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-1			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4182	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Harderian Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 1-7			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Perivascular	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4183	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 590
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Brain		Compression	
		Hydrocephalus	Moderate
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Penis			
Note: AND HYDROCEPHALUS.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-11]			
Testes	Interstit Cell	Hyperplasia	Mild
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4183	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 590
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4184	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 522
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node
Nose	Salivary Glands	Skin	Spleen
Stomach - Glandular	Testes	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4184	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 522
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS TGLs = 2-6			
Note: HYPERKERATOSIS TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4185	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 6-1]			
Liver		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Cyst	
Note: CYST TGLs = 1-11			
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
[Adenoma TGLS = 4,5-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4185	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4186	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 486
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Small - Ileum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT NECK REGION,IS ZYMBALS GLD			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4187	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 726
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Ear		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4187	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 726
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROMA TGLs = 2-11		
Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5-13]		
Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 3-10]		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4188	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart	Atrium	Thrombosis	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 9-1			
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
[Leukemia Mononuclear TGLS = 8-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5,6,7-2+5+7+11+12			
Mammary Gland		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4188	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 3-13			
[Leukemia Mononuclear TGLS = 1,2-13]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 10-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4189	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 585
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Islets, Pancreatic		Carcinoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6,7-2+7+11			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-12			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4189	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 585
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-13]			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4190	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 605
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 4-10			
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Lung	Mediastinum	Mesothelioma Malignant	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Seminif Tub	Atrophy	Marked
		Mesothelioma Malignant	
Note: ATROPHY TGLs = 3-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MALIGNANT MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4191	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 503
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Schwannoma Malignant	
Note: [SCHWANNOMA MAL] TGLs = 2-12			
Kidney		Nephropathy	Chronic, Mild
Liver		Necrosis	Coagulative, Marked
Lung		Schwannoma Malignant	Metastatic (Heart)
Lymph Node			
Note: TGL#3-NCL-MEDIASTINAL L N IS MISSING.			
Note: HISTOPATHOLOGOCALLY.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: TGL#4-NCL-MESENTERIC L N CONSIDERED TO BE WNL			
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4191	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 503
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN

Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:CARDIAC FIBROSARCOMA,
Animal Note: HEPATIC NECROSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4192	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum	Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-11			
Mesentery		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4192	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLARY REGION,IS MAMMARY GLD			
Note: FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOMA TGLs = 6-7			

PRIMARY CAUSE OF DEATH -

Animal Note: SEVERE,CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4193	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 664
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4193	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 664
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Acanthosis	Moderate
Note: ACANTHOSIS TGLs = 5-13			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ADENOCARC TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4194	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Mammary Gland	Nose
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Marked
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 1,2-10]			
[Atrophy TGLS = 1-10]			
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4194	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4195	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 381
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Bone	Cervical	Osteoma	
Note: OSTEOMA TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thymus		Cyst	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:CERVICAL OSTEOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4196	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 592
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Adrenal Gland - Medulla	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Pituitary Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Marked
		Mineralization	Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 1,2-1]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: THYROID FOLLICULAR CELL:AUTOLYSIS-PRCL.			

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4197	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CATARACT TGLs = 1-12			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4197	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 3-11
[Leukemia Mononuclear TGLS = 2-11]

Stomach	Glandular	Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4198	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
		Hydrocephalus	Moderate
Heart	Atrium	Thrombosis	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 1-7			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: WITH EXTENSION INTO CEREBRUM AND RESULTANT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4198	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:PITUITARY CARCINOMA
Animal Note: HYDROCEPHALUS.
Animal Note: COMPRESSION OF THE HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4199	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2,3-1			
Liver		Clear Cell Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
Stomach	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Chronic Active, Mild
Note: [HYPERPLASIA] TGLs = 4-11			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4199	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4200	**TRT#:** 4	**SEX:** Male	**DAY ON TEST:** 183
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Islets, Pancreatic	Kidney	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Testes	Tooth
Trachea			

MISSING

Mammary Gland	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Glandular	Thyroid Gland
Urinary Bladder			

OBSERVATIONS

Heart	Cardiomyopathy	Chronic, Mild
Lymph Node		
Note: MANDIBULAR LYMPH NODE: NORMAL.		
Prostate	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-11		
Seminal Vesicle	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-11		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE PROSTATITIS AND
Animal Note: SEMINAL VESICULITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4201	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: BASOPH FOCUS TGLs = 3-11			
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Moderate
Note: [ADENOCARC] TGLs = 4-12			
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4201	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin			
Note: TGL#4-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLAND ADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4202	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Note: ONLY ONE PREPUTIAL GLD AVAILABLE FOR			
Note: HISTOPATHOLOGIC EXAMINATION.			
Skin		Abscess	Marked
		Basosquamous Tumor Benign	Multiple
Note: BASOSQU TM BGN TGLs = 2,3-12+13			
[Abscess TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
[Adenoma TGLS = 4,5-10]			
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4203	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 541
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea		
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Urinary Bladder		

OBSERVATIONS			
Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4204	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Cyst	
Nose		Inflammation	Chronic Active, Marked
Pharynx	Palate	Squamous Cell Papilloma	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Neurofibrosarcoma	
[Neurofibrosarcoma TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4204	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-10+12]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4205	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 617
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 2-11]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Note: PHEOCHROM MAL TGLs = 1-2+3			
Lymph Node	Mediastinal	Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4205	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 617
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:MAL PHEOCHROMOCYTOMA WITH
Animal Note: MASSIVE PULMONARY METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4206	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4206	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-11]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4207	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung	Mediastinum, Perivascular	Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
	Artery, Mediastinum	Necrosis	Fibrinoid, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Moderate
	Perivascular	Inflammation	Chronic Active, Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4207	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4208	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 670
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 8-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 7-1			
Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-11			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4208	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 670
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 1-10			
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: SEVERE,CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4209	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 2-7			
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4210	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Nose	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Leiomyoma	
Note: LEIOMYOMA TGLs = 4-11			
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4210	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4211	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Inguinal	Necrosis	Marked
	Mandibular	Necrosis	Marked
Note: NECROSIS TGLs = 6-5+7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4211	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: LEUKEMIA MONUC TGLs = 2-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-10+12			
Thymus		Leukemia Mononuclear	
		Necrosis	Marked
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 7-14			
Note: ADENOMA TGLs = 8-14			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4212	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Metaplasia	Osseous, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE ON SLIDE #5.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-10+12]			
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4212	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4213	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4213	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: NUCLEAR CELL LEUKEMIA.
Animal Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY, IS
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4214	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2+3			
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-11]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4214	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4215	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 643
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: PATHOLOGICALLY.			
Note: ADENOMA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4215	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 643
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#2-TESTICULAR SIZE CONSIDERED TO BE WNL HISTO-			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4216	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4216	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-2+12			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
[Leukemia Mononuclear TGLS = 6-2]			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Hyperkeratosis	Moderate
	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
	Perivascular	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4217	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4217	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
		Thrombosis	
Note: THROMBUS TGLs = 2-11			
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Note: TGL#4-NCL-TESTICLE SIZE CONSIDERED TO BE WNL HISTO-			
Note: PATHOLOGICALLY.			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4218	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Mild
Intest Large			
Note: TGL#2-NCL-CECAL WALL CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3,4-1+11			
Liver		Degeneration	Cystic, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Perivascular	Inflammation	Chronic Active, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4218	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5,6-10]			
[Atrophy TGLS = 5-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-12]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.
Animal Note: PROBABLY TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4219	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Brain		Meningioma Benign	
Note: MENINGIOMA BGN TGLs = 4-14			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Perivascular	Inflammation	Chronic Active, Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Salivary Glands		Inflammation	Chronic Active, Marked
Skin			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT HEAD REGION,AS NOTED AT NECROPSY,			
Spleen		Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4219	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 2-13]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11+12			

PRIMARY CAUSE OF DEATH -

Animal Note: CEREBRAL MENINGIOMA.
Animal Note: CONTRIBUTING FACTORS:ZYMBALS GLD CARCINOMA AND
Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4220	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
		Thrombosis	
Note: LEUKEMIA MONUC TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4220	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-11]		
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 4-10		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4221	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 466
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Testes
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: TGL #'S 1&2-NCL-MEDIASTINAL AND MESENTERIC L N'S			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: COMPRESSION OF HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4221	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 466
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: HYDROCEPHALUS.
Animal Note: ASSOCIATED HEMORRHAGE WITH RESULTANT
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4222	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 634
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Thyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Squamous Cell Papilloma	
Note: [PAPILLOMA SQUA] TGLs = 1-11			
Stomach			
Note: TGL#2-NCL-RUPTURED FORESTOMACH NOT APPARENT			
Note: HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: THIS WAS NOT SUBSTANTIATED HISTOPATHOLOGICALLY.
Animal Note: CAUSE OF DEATH:UNDETERMINED.PROBABLY WAS DUE TO
Animal Note: THE RUPTURED FORESTOMACH,AS NOTED AT NECROPSY,BUT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4223	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-1			
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 6-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4223	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 1-10			
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 5-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4224	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 453
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Mammary Gland	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Peripheral Nerve

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
	Medulla	Pheochromocytoma Benign	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Spinal Cord	White Matter	Degeneration	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4224	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 453
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: ATRIAL THROMBOSIS AND POSTERIOR PARALYSIS.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4225	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4225	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4226	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Moderate
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1,2-1			
Liver		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4226	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#3-NCL-TESTICLE SIZE CONSIDERED TO BE WNL
Note: ADENOMA TGLs = 4-10

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4227	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 2-12			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4227	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4228	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 596
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Femoral	Myelofibrosis	Moderate
Eye			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Note: YELLOW EYES,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4228	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 596
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Preputial Gland	Duct	Dilatation	Moderate
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Note: DILATATION TGLs = 1-12			
Note: HYPERPLASIA TGLs = 1-12			
Prostate		Inflammation	Chronic Active, Marked
Skin			
Note: CELL LEUKEMIA.			
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4229	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Prostate	Salivary Glands
Spleen	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Infiltration Cellular	Mixed Cell, Moderate
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
		Leukocytosis	
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: [FIBROSARC] TGLs = 1-11			
Stomach	Forestomach	Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4229	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Glandular	Inflammation	Chronic Active, Marked
Note: [INFLAMMATION] TGLs = 2-6			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: FIBROSARCOMA,ULCERATIVE GASTRITIS, AND
Animal Note: PYELONEPHRITIS.
Animal Note: CAUSE OF MORBIDITY:MASSIVE,CUTANEOUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4230	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 42
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Ear	Epididymis
Esophagus	Eye	Harderian Gland	Heart
Islets, Pancreatic	Kidney	Liver	Lung
Mammary Gland	Parathyroid Gland	Peripheral Nerve	Prostate
Salivary Glands	Skeletal Muscle	Skin	Spinal Cord
Spleen	Testes	Tooth	Trachea
Zymbal's Gland			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Preputial Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Urinary Bladder	

OBSERVATIONS

Lymph Node

Note: MESENTERIC LYMPH NODE: AUTOLYSIS.

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4231	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 6-7			
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3,8-1+13			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Moderate
Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4231	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Note: FIBROSIS TGLs = 7-12			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 4-11			
Note: ATROPHY TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4232	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 653
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Moderate
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4232	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 653
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4233	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 447
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Salivary Glands	Skin
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Preputial Gland

OBSERVATIONS

Brain		Compression	
		Hemorrhage	Mild
		Hydrocephalus	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-1			
Stomach	Glandular	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: HYDROCEPHALUS.MONONUCLEAR CELL LEUKEMIA.
Animal Note: COMPRESSION OF HYPOTHALMUS AND
Animal Note: ASSOCIATED HEMORRHAGE WITH RESULTANT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4233	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 447
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4234	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4234	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Note: TGL#3-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4235	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8,9-2+14			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4235	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 710
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 4-7			
Preputial Gland		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Mild
Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	
		Leukemia Mononuclear	
		Squamous Cell Carcinoma	
Note: FIBROMA TGLs = 3-13			
Note: SQUAM CEL CARC TGLs = 1-11			
Note: CYST EPITH INC TGLs = 2-12			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-15			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 7-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4236	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Note: ADENOMA TGLs = 4-7			
Note: HEMORRHAGE TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4236	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.
Note: TGL#2-NCL-TESTICLE SIZE CONSIDERD TO BE WNL
[Adenoma TGLS = 1,3-10]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4237	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Note: LEUKEMIA MONUC TGLs = 4-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-2+12			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4237	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4238	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 594
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Moderate
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose			
Note: BE ARTIFACT.			
Note: SECTIONS OF PINWORMS IN NASAL CAVITY CONSIDERED TO			
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4238	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 594
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4239	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Epididymis	Mammary Gland	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Edema	Moderate
	Cecum	Inflammation	Chronic Active, Mild
Intestine Small	Ileum	Edema	Mild
	Jejunum	Edema	Mild
Kidney		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,6,7,9-2+5+7+12+13		
Mesentery		Inflammation	Chronic Active, Mild
		Thrombosis	
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4239	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			
[Adenoma TGLS = 2-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Minimal
[Adenocarcinoma TGLS = 8-7]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: MASSIVE, CUTANEOUS FIBROMA.
Animal Note: MASSIVE,CUTANEOUS FIBROSARCOMA.
Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4240	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Colon	Intestine Small - Ileum	Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4+12			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4240	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 6-11			
Note: LEUKEMIA MONUC TGLs = 5-11			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 2-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4241	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 4-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4241	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4242	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 708
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1,2,5-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Marked
	Glandular	Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 4-6			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4242	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 708
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4243	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 5-1]			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOMA TGLs = 6-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4244	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone		Squamous Cell Carcinoma	Metastatic (Skin)
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: TGL#6-NCL-MANDIBULAR L N CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Moderate
		Squamous Cell Carcinoma	Metastatic (Skin)
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4244	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: [ADENOMA] TGLs = 4,5-10			
Note: TGL#3-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Tissue NOS		Carcinoma	
Note: [CARCINOMA] TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: SQUAMOUS CELL CARCINOMA OF
Animal Note: HEAD. DIAGNOSED AS TISSUE NOS-CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4245	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Brain		Compression	
		Hydrocephalus	Mild
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 6-10			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 7-12			
Heart		Cardiomyopathy	Chronic, Mild
Intest Small			
Note: HISTOPATHOLOGICALLY.			
Note: TGL-3-NCL-DUODENUM CONSIDERED TO BE WNL			
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Vacuolization Cytoplasmic	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4245	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 696
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hemorrhage	Moderate
Note: ADENOMA TGLs = 8-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-6			
Testes	Seminif Tub	Atrophy	Marked
		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 5,6-10			
Note: ATROPHY TGLs = 4-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: AND MALIGNANT MESOTHELIOMA.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: ASSOCIATED HEMORRHAGE AND RESULTANT
Animal Note: COMPRESSION OF HYPOTHALMUS AND HYDRO-
Animal Note: CEPHALUS,MARDKED GASTRITIS AND PROSTATITIS,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4246	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
	Sternal	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Leukemia Mononuclear TGLS = 4-1]			
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 5-12			
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 6-2			
Lymph Node	Mandibular	Cyst	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4246	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4247	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Spleen	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 1-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Moderate
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4247	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: GASTRITIS AND PHEOCHROMOCYTOMA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4248	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Skin

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-7			
Mesentery		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4248	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 3-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4249	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Mammary Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Alveolar/Bronchiolar Carcinoma	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Perivascular	Inflammation	Chronic Active, Marked
Parathyroid Gland		Adenoma	
Preputial Gland		Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4250	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: NUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY, IS			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4250	**TRT#:** 5	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: NUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY, IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#1-NCL-TESTICLE SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4251	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 507
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: SEEN CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4252	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Minimal
Epididymis			
Note: EXAMINATION.			
Note: ONLY ONE EPIDIDYMIS AVAILABLE FOR HISTOPATHOLOGIC			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Cyst	
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Urin Bladder			
Note: CROSS-SECTION OF METAZOAN PARASITE IN LUMEN OF			
Note: URINARY BLADDER CONSIDERED TO BE AN ARTIFACT.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4253	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Ear			
Note: YELLOW COLOR,NOTED AT NECROPSY,IS PROBABLY DUE TO			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Eye			
Note: FROM THE LEFT EYE NOTED AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4253	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4254	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Harderian Gland	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Esophagus		Hemorrhage	Marked
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenocarcinoma	
[Adenocarcinoma TGLS = 1-11]			
Trachea		Adenocarcinoma	Metastatic (Thyroid Gland)
		Hemorrhage	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4254	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 552
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:THYROID GLD FOLLICULAR CELL
Animal Note: VESSEL AND RELATED HEMORRHAGE.
Animal Note: ADENOCARCINOMA WITH RUPTURE OF BLOOD

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4255	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,8-2+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4255	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 5-10			
Note: ADENOMA TGLs = 4,5-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 7-14			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4256	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 371
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 2-5			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4257	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4257	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 2-10
Note: TGL#3-NCL-TESTICULAR SIZE WAS CONSIDERED TO BE WNL
Note: HISTOPATHOLOGICALLY.

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4258	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 709
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intest Large			
Note: RED COLOR,NOTED AT NECROPSY,DUE TO ENGORGEMENT WITH			
Note: TGL#4-NCL-CECUM CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: BLOOD.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4258	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 709
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 3-10			
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4259	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 687
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 2-1			
Note: NEPHROPATHY TGLs = 2-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: LEUKEMIA MONUC TGLs = 4-11			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4259	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 687
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 1-1		
Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 5-10]		

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4260	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 8-14			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Note: DEGEN TGLs = 5,6-13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9,10-2+5+11			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4260	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Marked
[Inflammation TGLS = 11-15]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Note: TGL#1-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4261	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 701
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Marked
		Mineralization	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-1			
Liver		Degeneration	Cystic, Minimal
		Necrosis	Coagulative, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: DUE TO ENGORGEMENT WITH BLOOD.			
Note: HISTOPATHOLOGICALLY.RED COLOR,AS NOTED AT NECROPSY,			
Note: TGL#6-NCL-MESENTERIC LYMPH NODE CONSIDERED TO BE WNL			
Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4261	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 701
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 5-10			
Note: ATROPHY TGLs = 4-10			
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
Note: ADENOMA TGLs = 2-7			
Note: HYPERPLASIA TGLs = 2-7			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY;
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4262	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 4-1]			
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Note: DEGEN TGLs = 6-13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4262	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4263	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Cystadenocarcinoma	
		Nephropathy	Chronic, Moderate
Note: CYSTADENOCARC TGLs = 4-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1,2-11+12			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MASSIVE, CUTANEOUS FIBROSARCOMA.
Animal Note: CAUSE OF MORBIDITY:RENAL CYSTADENOCARCINOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4264	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Moderate
	Lens	Cataract	Mild
		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4264	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 5-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4265	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Marked
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4+12+13			
Note: [HEPATOCLR ADEN] TGLs = 4-12			
[Leukemia Mononuclear TGLS = 5-13]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4265	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4266	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-10			
Skin			
Note: TGL#1-SKIN LESION,PREPUSE,AS NOTED AT NECROPSY,IS			
Note: PREPUTIAL GLD ABSCESS HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4266	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 615
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,AS NOTED AT NECROPSY,IS PROBABLY DUE
Animal Note: TO JAUNDICE SECONDARY TO THE MONONUCLEAR CELL
Animal Note: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4267	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM BGN TGLs = 4-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4267	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-10			
Thyroid Gland		C Cell	Adenoma	
		Follicular Cel	Adenoma	
		Follicular Cel	Hyperplasia	Mild
Note: ADENOMA	TGLs = 6-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4268	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN TGLs = 5-13			
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-7+11			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-12]			
Stomach	Forestomach	Acanthosis	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4268	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4269	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4269	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4270	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 493
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Bone	Femur	Osteosarcoma	
Note: HISTOPATHOLOGICALLY.			
Note: OSTEOSARC TGLs = 3-13			
Note: TGL#2-NCL-RIGHT TARSAL JOINT CONSIDERED TO BE WNL			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: HINDLIMB.
Animal Note: CAUSE OF MORBIDITY:OSTEOSARCOMA, RIGHT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4270	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 493
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4271	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Mammary Gland	Nose
Pancreas	Salivary Glands	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
	Cortex	Hypertrophy	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Intestine Small	Duodenum	Necrosis	Coagulative, Marked
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Skin		Cyst Epithelial Inclusion	
		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4271	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST EPITH INC TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Necrosis	Coagulative, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 3-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: GASTRIC & DUODENAL MUCOSA.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA;
Animal Note: SEVERE,CHRONIC NEPHROPATHY;INFARCTS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4272	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Moderate
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Cyst	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: CYST TGLs = 2-11			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4272	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Intermed	Cyst	
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: THE MONONUCLEAR CELL LEUKEMIA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,
Animal Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4273	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 601
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: LEUKEMIA MONUC TGLs = 4-2			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4273	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 601
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: THE MONONUCLEAR CELL LEUKEMIA.
Animal Note: NECROPSY,IS PROBABLY JAUNDICE SECONDARY TO
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW SKIN,AS NOTED CLINICALLY AND AT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4274	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 708
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Mammary Gland	Pancreas	Pituitary Gland
Salivary Glands	Skin	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Prostate

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 1-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Inflammation	Chronic Active, Moderate
Parathyroid Gland		Hyperplasia	Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
Stomach	Forestomach	Hyperplasia	Squamous, Moderate
	Glandular	Mineralization	Mild
Note: [HYPERPLASIA] TGLs = 4-6			
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4274	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 708
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 3-10			
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4275	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 8-7			
Blood		Leukemia Mononuclear	
Eye		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-11			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	
	Mandibular	Hyperplasia	Plasma Cell, Moderate
	Mediastinal	Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 3-7			
Note: LEUKEMIA MONUC TGLs = 4-2			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Intermed	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4275	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,RIGHT HEAD,AS NOTED AT NECROPSY,			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4276	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 536
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Monocytic	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-11			
Spleen		Leukemia Monocytic	
Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Tissue NOS			
Note: TGL#1-MASS,TISSUE NOS,AS NOTED AT NECROPSY,IS SUB-			
Note: CUTICULAR FIBROSARCOMA HISTOPATHOLOGICALLY.			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SUBCUTANEOUS FIBROSARCOMA

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4276	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 536
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: RIGHT HIP REGION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4277	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 5-12			
[Leukemia Mononuclear TGLS = 2,3,4-12+13]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4277	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-10]			
Thyroid Gland	Bilateral, C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4278	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 599
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: YELLOW COLOR,NOTED AT NECROPSY,IS PROBABLY DUE TO			
Note: THIS IS NOT DEMONSTRABLE HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Hyperplasia	Marked
		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4278	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 599
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: IS HYPERPLASTIC PREPUTIAL GLD HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,ABDONIMAL REGION,AS NOTED AT NECROPSY,			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: IS PROBABLY JAUNDICE SECONDARY TO THE
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,
Animal Note: MONONUCLEAR CELL LEUKEMIA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4279	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Necrosis	Coagulative, Moderate
Lymph Node			
Note: WNL HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: TGL#1-SKIN LESION,LEFT ABDOMINAL REGION,AS NOTED AT			
Note: NECROPSY,NOT APPARENT HISTOPATHOLOGICALLY.			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4279	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 705
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:ATRIAL THROMBOSIS;
Animal Note: HEPATIC NECROSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4280	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Degeneration TGLS = 3,4-12+13]			
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Leukemia Mononuclear	
Nose		Fungus	
		Inflammation	Chronic Active, Marked
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4280	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4281	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 661
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY INVOLVING THE			
Note: LEFT EYE.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: DEGEN TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-7+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4281	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 661
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4282	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4282	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 4-10			
Note: HYPERPLASIA TGLs = 4-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: YELLOW COLOR OF TISSUES AND BODY CAVITIES,
Animal Note: AS NOTED CLINICALLY AND AT NECROPSY,IS PROBABLY
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: CELL LEUKEMIA.
Animal Note: DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4283	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 599
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Duodenum	Stomach - Forestomach	Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Moderate
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-1			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4283	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 599
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4284	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5,8-1+14			
Liver		Degeneration	Cystic, Mild
Lymph Node	Mandibular	Cyst	
Note: CYST TGLs = 7-11			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 2-13]			
Nose		Inflammation	Chronic Active, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4284	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#2-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: WNL HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE			
[Adenoma TGLS = 3-10]			
Thymus		Ectopic Parathyroid Gland	
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 6-7			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4285	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Salivary Glands
Skin	Tooth	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Hyperplasia	Marked
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: LEUKEMIA MONUC TGLs = 4-4			
Note: HYPERPLASIA TGLs = 5-12			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5+7			
Nose		Inflammation	Chronic Active, Mild
Parathyroid Gland		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4285	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 678
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-7			
Note: [ADENOMA] TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Prostate		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4286	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hematocyst	
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Intest Small			
Note: LOGICALLY CONSIDERED TO WNL.			
Note: TGL#5-NCL-SECTION OF JEJUNUM OBSERVED HISTOPATHO-			
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Hepatocellular Adenoma	
Note: [HEPATOCLR ADEN] TGLs = 4-12			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
Note: ADENOMA TGLs = 1-11			
Prostate		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4286	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:PREPUTIAL GLD ADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4287	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4287	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: YELLOW SKIN,AS NOTED CLINICALLY AND AT
Animal Note: NECROPSY,IS PROBABLY JAUNDICE SECONDARY TO
Animal Note: THE MONONUCLEAR CELL LEUKEMIA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4288	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Liver	Lymph Node - Mesenteric	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
Islets, Pancreatic		Hyperplasia	Focal, Moderate
Kidney	Renal Tubule	Adenoma	Multiple
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5,6-1+11			
Lung		Inflammation	Chronic Active, Moderate
	Mediastinum	Mineralization	Marked
Note: INFLAMMATION TGLs = 1-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: TGL#4-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4288	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA	TGLs = 3-7			
Preputial Gland			Inflammation	Chronic Active, Mild
Prostate			Inflammation	Chronic Active, Moderate
Spleen			Hematopoietic Cell Proliferation	Mild
Stomach		Glandular	Mineralization	Mild
Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 8-10			
Thyroid Gland		Bilateral, Follicular Cel	Adenoma	
		C Cell	Adenoma	
		Follicular Cel	Hyperplasia	Marked
Note: ADENOMA	TGLs = 2-7			
Note: ADENOMA	TGLs = 2-7			
Trachea			Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: NEPHROPATHY WITH PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4289	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-2+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-12			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Note: TGL#5-NCL-SIZE OF TESTICLES CONSIDERED TO BE WNL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4289	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 647
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MROBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4290	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
Preputial Gland		Inflammation	Chronic Active, Moderate
Spleen			
Note: TGL#1-NCL-SPLEEN CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10+11			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4291	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-7			
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4291	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: SECONDARY TO THE MONONUCLEAR CELL
Animal Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.
Animal Note: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4292	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 643
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Hyperplasia	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-4+12			
Note: HYPERPLASIA TGLs = 5-12			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4292	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 643
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: LEUKEMIA.
Animal Note: SECONDARY TO THE MONONUCLEAR CELL
Animal Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE
Animal Note: YELLOW SKIN,AS NOTED CLINICALLY AND AT
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4293	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 681
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-1]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Testes	Interstit Cell	Adenoma	
		Necrosis	Coagulative, Marked
Note: ADENOMA TGLs = 1-10			
Note: NECROSIS TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4293	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 681
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4294	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 429
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4-2+12			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4294	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 429
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4295	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: ONLY ONE ADRENAL GLD AVAILABLE FOR HISTOPATHO-			
Note: LOGICAL EXAMINATION.			
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 3-1]			
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2+3]			
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4295	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-10]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4296	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen			
Note: TGL#1-NCL-SPLEEN CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Stomach			
Note: TGL#5-NCL-LESION IN GLANDULAR STOMACH,AS NOTED AT TRIM,			
Note: IS NORMAL LYMPHOID FOLLICLE HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4296	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
[Adenocarcinoma TGLS = 4-7]			
[Adenoma TGLS = 4-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4297	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Parathyroid Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Pituitary Gland

OBSERVATIONS

Epididymis		Sarcoma	Metastatic (Mesentery)
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Kidney		Nephropathy	Chronic, Mild
	Capsule	Sarcoma	Metastatic (Mesentery)
Lymph Node	Mediastinal	Sarcoma	Metastatic (Mesentery)
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: NECROPSY,IS MESENTERIC SARCOMA HISTOPATHOLOGICALLY.			
Note: TGL#5-ENLARGED MESENTERIC LYMPH NODES,AS NOTED AT			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Sarcoma	
Note: SARCOMA TGLs = 4,5-1+6+12+13			
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Pancreas		Sarcoma	Metastatic (Mesentery)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4297	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland			Inflammation	Chronic Active, Mild
Skeletal Muscle		Diaphragm	Sarcoma	Metastatic (Mesentery)
Note: SARCOMA	TGLs = 1-11			
Testes		Bilateral, Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Moderate
			Sarcoma	Metastatic (Mesentery)
Note: ADENOMA	TGLs = 2-10			
Note: ATROPHY	TGLs = 3-10			
Thyroid Gland		C Cell	Adenoma	
		C Cell	Hyperplasia	Marked
		Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MESENTERIC SARCOMA WITH
Animal Note: MULTIPLE METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4298	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 626
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4298	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 626
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4299	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Stomach			
Note: NORMAL APPEARING SUBMUCOSAL LYMPHOID AGGREGATION.			
Note: TGL#2-NCL-GLANDULAR STOMACH CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.NODULE,AS NOTED AT TRIM, IS			
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-10+11]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4300	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral, Myeloid Cell	Atrophy	Marked
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-11			
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4300	**TRT#:** 6	**SEX:** Male	**DAY ON TEST:** 692
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
		Inflammation	Chronic Active, Mild
Skin			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: NUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR NOTED CLINICALLY AND AT NECROPSY IS			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-TESTICLE SIZE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4301	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 728
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Mild
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
	Nasolacrim Dct	Squamous Cell Carcinoma	
Pancreas	Acinus	Atrophy	Moderate
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Testes	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4301	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 728
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Hyperplasia	Minimal
Note: ATROPHY TGLs = 3-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 5-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4302	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Note: LOGICALLY. ENLARGEMENT, AS NOTED AT NECROPSY, PROBABLY			
Note: DUE TO ENGORGEMENT WITH BLOOD.			
Note: TGL#6-NCL-ATRIA CONSIDERED TO BE WNL HISTOPATHO-			
Note: NOT APPARENT HISTOPATHOLOGICALLY.			
Note: TGL#5-NCL-NODULES, LEFT ATRIUM, AS NOTED AT NECROPSY,			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
		Thrombosis	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-11			
Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4302	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 632
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4303	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 5,6-13+14			
[Leukemia Mononuclear TGLS = 4-4+13+14]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7,8-2+11]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4303	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Testes	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4304	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 2-14]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Adenocarcinoma	Metastatic (Thyroid Gland)
		Leukemia Mononuclear	
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 5-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-13			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4304	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#6-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 6-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 7,8-12			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4305	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 631
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart	Atrium	Thrombosis	
Kidney	Renal Tubule	Adenoma	
	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
Liver		Necrosis	Coagulative, Moderate
Note: [NECROSIS] TGLs = 2-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: [ADENOCARC] TGLs = 3-7			
Note: [ADENOMA] TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4305	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 631
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:HEPATIC NECROSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4306	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 687
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
		Nephropathy	Chronic, Moderate
Note: NECROSIS TGLs = 5-13			
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4306	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 687
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 3-10			
Note: TGL#3-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 4-12			

PRIMARY CAUSE OF DEATH -

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA, AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4307	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1,7-11]			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
	Mediastinum, Vein	Thrombosis	
Lymph Node			
Note: TGL#4-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4307	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 6-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4308	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 391
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Coagulating Gland	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pituitary Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Coagulat Gl			
Note: TGL#3-NCL-COAGULATING GLD CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4,5-1			
Liver		Degeneration	Cystic, Mild
		Necrosis	Coagulative, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Pancreas	Acinus	Atrophy	Mild
Prostate		Inflammation	Chronic Active, Marked
Testes	Seminif Tub	Atrophy	Mild
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 6-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4308	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 391
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:SEVERE, CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4309	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3,4-1+11			
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4309	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 2-7+11			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4310	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Pituitary Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Skin

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-7			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 2,3-11			
Note: ADENOCARC TGLs = 2,3-11			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4310	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4311	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 579
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5+7			
Nose		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4311	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 579
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-11]			
Stomach			
Note: TGL#5-NCL-SECTIONS OF STOMACH CONSIDERED TO BE			
Note: WNL HISTOPATHOLOGICALLY.			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-10			
Note: HYPERPLASIA TGLs = 1-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4312	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 529
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Peripheral Nerve	Sciatic	Degeneration	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Spinal Cord	White Matter	Degeneration	Mild
Testes	Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:POSTERIOR PARALYSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4313	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 461
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Liver	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Adenocarcinoma	
Note: ADENOCARC TGLs = 3-12			
Kidney		Nephropathy	Chronic, Mild
Lymph Node	Mesenteric	Cyst	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Note: HISTOPATHOLOGICALLY.			
Note: CYST TGLs = 2-11			
Note: TGL#1-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Marked
Tooth		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ADENOCARCINOMA, JEJUNUM.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4314	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4314	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 3,4-11			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4315	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 523
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: WNL HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-MANDIBULAR LYMPH NODE CONSIDERED TO BE			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Peripheral Nerve	Sciatic	Degeneration	Mild
Prostate		Inflammation	Chronic Active, Mild
Spinal Cord	White Matter	Degeneration	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 2-10			
Note: TGL#1-NCL-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:POSTERIOR PARALYSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4316	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Eye
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 8-1			
Note: NEPHROPATHY TGLs = 8-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,9-2+13			
Mammary Gland		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4316	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 697
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Skin			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW SKIN NOTED CLINICALLY PROBABLY DUE TO JAUNDICE			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#7-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
Note: CARCINOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4317	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Epididymis		Mineralization	Marked
Eye			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: PALE EYES NOTED CLINICALLY PROBABLY DUE TO THE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Marked
		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 7-13			
Note: LEUKEMIA MONUC TGLs = 6-4+13			
Note: ANGIECTASIS TGLs = 7-13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-2+11]			
Nose		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4317	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4318	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4318	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: CARCINOMA TGLs = 5,6-7			
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4-12]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4319	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 664
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW EYES NOTED CLINICALLY DUE TO JAUNDICE SECONDARY			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4-4+14			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,6-7+11			
Note: MESENTERIC FAT HISTOPATHOLOGICALLY.			
Note: TGL#5-MESENTERIC LYMPH NODE MASS, AS NOTED AT			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4319	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 664
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROPSY,IS CHRONIC-ACTIVE INFLAMMATION OF			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 5-12			
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin			
Note: TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW SKIN NOTED CLINICALLY DUE TO JAUNDICE SECONDARY			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4320	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4-2+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4320	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 580
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4321	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: PALE EYES, NOTED CLINICALLY PROBABLY DUE TO MONO-			
Note: NUCLEAR CELL LEUKEMIA.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery			
Note: YELLOW MESENTERY, NOTED CLINICALLY, DUE TO JAUNDICE			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Pituitary Gland	Pars Distalis	Atypia Cellular	
Preputial Gland		Inflammation	Chronic Active, Mild
Note: LOGIC EXAMINATION.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4321	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ONLY ONE PREPUTIAL GLD AVAILABLE FOR HISTOPATHO-			
Skin			
Note: TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW SKIN, NOTED CLINICALLY DUE TO JAUNDICE SECONDARY			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4322	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 611
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Necrosis	Coagulative, Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Necrosis	Coagulative, Marked
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4322	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 611
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
Note: LOGICALLY, NOT BILATERALLY.			
Note: TGL#3-LESION SEEN IN ONLY ONE TESTICLE HISTOPATHO- [Adenoma TGLS = 3-10]			
Thyroid Gland	Follicular Cel	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA;
Animal Note: PANCREATIC INFARCT.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4323	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA. THIS
Note: TGL#2-YELLOW COLOR NOTED AT NECROPSY DUE TO JAUNDICE
Note: CATARACT TGLs = 1-11
Note: RATS NORMALLY HAVE RED TEARS DUE TO THE PORPHYRIN
Note: CANNOT BE SEEN HISTOPATHOLOGICALLY.
Note: CONTENT.

Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Hepatocellular Adenoma	
		Leukemia Mononuclear	

Note: [HEPATOCLR ADEN] TGLs = 7-14
Note: LEUKEMIA MONUC TGLs = 6-4+14

Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4323	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5,10,11,14-2+6+13+15+16]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Hemorrhage	Mild
		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Salivary Glands		Leukemia Mononuclear	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 3-12			
Note: YELLOW SKIN NOTED AT NECROPSY DUE TO JAUNDICE			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: LEUKEMIA MONUC TGLs = 12-17			
Note: NECROSIS TGLs = 13-17			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 15-10			
[Adenoma TGLS = 15-10]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4323	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: CARCINOMA TGLs = 8-7

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4324	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 719
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex	Adenoma	
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Carcinoma	
	Epithelium, Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Moderate

Note: RENAL TUBULAR CARCINOMA CONTAINS A FOCUS OF
Note: CARCINOMA TGLs = 6-12
Note: OSSEOUS METAPLASIA.

Liver	Basophilic Focus	
	Degeneration	Cystic, Marked
	Necrosis	Coagulative, Mild

Note: NECROSIS TGLs = 9-4

Lymph Node

Note: TGL#11-NCL-MESENTERIC LYMPH NODES CONSIDERED TO BE
Note: WNL HISTOPATHOLOGICALLY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4324	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 719
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MANDIBULAR LYMPH NODE NORMAL.			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
		Lymphoma Malignant Histiocytic	
		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 3-11			
Note: LYMPH MAL HIST TGLs = 2-11			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 4-10			
[Atrophy TGLS = 5-10]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: CARCINOMA TGLs = 7-13			
Note: ADENOMA TGLs = 8-13			
[Hyperplasia TGLS = 8-13]			

PRIMARY CAUSE OF DEATH -

Animal Note: MALIGNANT LYMPHOMA, HISTIOCYTIC TYPE, SPLEEN.
Animal Note: THYROID FOLLICULAR CELL ADENOCARCINOMA;
Animal Note: CAUSE OF DEATH:RENAL TUBULAR ADENOCARCINOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4325	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#2-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4325	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 4-7			
Note: ADENOCARC TGLs = 5-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4326	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-10]			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 1,2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4327	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 689
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: SEEN CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 7-12			
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8,9,10-2+7+11			
Mammary Gland		Hyperplasia	Cystic, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4327	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 689
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose			
Note: CONTENT. THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: SEEN CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-1]			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 3-10			
Note: ATROPHY TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 5-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4328	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4328	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 742
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4329	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Eye			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 1,2-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4329	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4330	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 722
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Ear
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Islets, Pancreatic	Lung	Lymph Node
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Ear			
Note: TGL#1-MASS,RIGHT EAR,AS NOTED AT NECROPSY,IS ZYMBALS			
Note: GLD CARCINOMA HISTOPATHOLOGICALLY.			
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4330	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 722
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 3-10			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-2			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 6,7-7			
Zymbal's Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY WITH
Animal Note: RESULTANT UREMIA;MALIGNANT LYMPHOMA,
Animal Note: HISTIOCYTIC TYPE.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4331	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Eye			
Note: NOTED CLINICALLY.			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,6-6+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4331	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4332	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM BGN TGLs = 4-7			
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Colon	Parasite Metazoan	
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Nose			
Note: CONTENT. THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4332	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Minimal
Skin			
Note: TGL#1-SKIN MASS,LEFT EAR, AS NOTED AT NECROPSY, IS			
Note: ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Note: TGL#2-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 6-12			
Note: ADENOMA TGLs = 5-12			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:ADRENAL GLD PHEOCHROMOCYTOMA;
Animal Note: ADENOCARCINOMA.
Animal Note: ZYMBALS GLD CARCINOMA;THYROID GLD FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4333	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lung	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Ear			
Note: TGL#1-MASS, RIGHT EAR, AS NOTED AT NECROPSY, IS			
Note: ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Kidney	Renal Tubule	Adenoma	
	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Mild
Lung			
Note: ONE LOBE OF LUNG COULD NOT BE INFLATED AT NECROPSY.			
Note: ENGORGEMENT OF PULMONARY VESSELS WITH BLOOD. ALSO,			
Note: TGL#7-NCL-BLACK PIGMENT NOTED AT NECROPSY DUE TO			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 2-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4333	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-LEFT TESTICLE DID NOT APPEAR SMALL			
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 5-11			
Note: ADENOMA TGLs = 6-11			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA; THYROID
Animal Note: GLD FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4334	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: TGL#7-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Note: TGL#'S 2&3-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4334	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.		
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
	C Cell	Adenoma
Note: ADENOCARC TGLs = 5,6-11		
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4335	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver		Degeneration	Cystic, Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: OSTEOSARC TGLs = 3-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4335	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-7
Note: ADENOCARC TGLs = 1-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4336	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
Note: ATROPHY TGLs = 2-10			
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4337	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 695
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Penis	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
Lymph Node			
Note: HISTOPATHOLOGICALLY. RED COLOR NODED AT NECROPSY DUE			
Note: TGL#4-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Note: TO ENGORGEMENT WITH BLOOD.			
Mammary Gland		Hyperplasia	Cystic, Mild
Penis			
Note: REMAINING WET TISSUE.			
Note: RECUTS OF THE BLOCK OR ADDITIONAL EXAMINATION OF THE			
Note: TGL#1-RAISED MASS ON PENIS,AS NOTED AT NECROPSY,NOT			
Note: SEEN HISTOPATHOLOGICALLY.ALSO,IT WAS NOT APPARENT IN			
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4337	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 695
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-10]		
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
Note: ADENOCARC TGLs = 2,3-11		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF DEATH:BILATERAL THYROID GLD FOLLICULAR
Animal Note: CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4338	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Preputial Gland		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Hemangiosarcoma	
Note: HEMANGIOSARC TGLs = 1-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 2,3-11			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4339	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 596
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Carcinoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin			
Note: TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW SKIN SEEN CLINICALLY DUE TO JAUNDICE SECONDARY			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4339	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 596
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ONLY ONE THYROID GLAND AVAILABLE FOR HISTOPATHOLOGIC			
Note: EXAMINATION.			
Note: ADENOMA TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4340	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 639
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-4			
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: TGL#4-NCL-LUNG FOCUS,NOTED AT NECROPSY,NOT FOUND AFTER			
Note: RECUT AND RE-EMBEDDING THE BLOCK.THOUGHT TO BE MOST			
Note: LIKELY CUT THROUGH DURING ORIGINAL SECTIONING.			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4340	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 639
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CHRONIC NEPHROPATHY AND ATRIAL THROMBOSIS.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA; SEVERE,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4341	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 30
	DOSE: 250 PPM 0-10	**DISP:** Accidentally Killed	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Salivary Glands	Skeletal Muscle
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum	Intestine Small - Jejunum

OBSERVATIONS

Lymph Node		
Note: MANDIBULAR LYMPH NODE NORMAL.		
Prostate	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: DROWNING.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4342	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 30
	DOSE: 250 PPM 0-10	**DISP:** Accidentally Killed	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skeletal Muscle	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Rectum Intestine Small - Jejunum

OBSERVATIONS

Lymph Node
Note: MANDIBULAR LYMPH NODE NORMAL.

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: DROWNING.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4343	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 30
	DOSE: 250 PPM 0-10	**DISP:** Accidentally Killed	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skeletal Muscle	Skin	Spinal Cord	Spleen
Stomach	Testes	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum	Intestine Small - Jejunum

OBSERVATIONS

Lymph Node

Note: MANDIBULAR LYMPH NODE NORMAL.

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: DROWNING.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4344	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 30
	DOSE: 250 PPM 0-10	**DISP:** Accidentally Killed	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Eye	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skeletal Muscle	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Intestine Small - Jejunum	Preputial Gland

OBSERVATIONS

Lymph Node
Note: MANDIBULAR LYMPH NODE NORMAL.

Prostate	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: DROWNING.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4345	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 30
	DOSE: 250 PPM 0-10	**DISP:** Accidentally Killed	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Ear
Epididymis	Esophagus	Eye	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Kidney	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skeletal Muscle	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Bone	Bone Marrow	Intestine Large - Rectum	Intestine Small - Jejunum
Parathyroid Gland			

OBSERVATIONS

Lymph Node

Note: MANDIBULAR LYMPH NODE NORMAL.

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: DROWNING.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4346	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea		

MISSING

Parathyroid Gland	Thymus

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Preputial Gland		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-13			
Prostate		Cyst	
		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Adenocarcinoma	Metastatic (Thyroid Gland)
Note: ADENOCARC TGLs = 3-12			
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4346	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-14]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 5-10			
Note: TGL#5-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 2-11			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4347	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Eye			
Note: NOTED CLINICALLY.			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Liver		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Skin		Inflammation	Chronic Active, Marked
Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-11]			
Testes	Interstit Cell	Adenoma	
Note: TGL#2-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4347	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 650
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
Note: ADENOCARC TGLs = 4-7		
PRIMARY CAUSE OF DEATH	-	

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:SEVERE, CHRONIC NEPHROPATHY;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4348	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Note: PITUITARY GLD ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA WITH
Animal Note: HYDROCEPHALUS.
Animal Note: RESULTING COMPRESSION OF HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4348	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 603
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4349	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 478
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Mammary Gland	Nose	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2,4-1			
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: [ADENOCARC] TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: SEVERE, CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4350	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver		Inflammation	Chronic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,4-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Bilateral, Follicular Cel	Adenoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4350	**TRT#:** 7	**SEX:** Male	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC TGLs = 8-7
Note: ADENOMA TGLs = 7,8-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4351	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 527
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Esophagus		Adenocarcinoma	Metastatic (Thyroid Gland)
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Lung		Inflammation	Chronic Active, Mild
Note: ENGORGEMENT OF PULMONARY VESSELS WITH BLOOD.			
Note: TGL#5-NCL-MOTTLED APPEARANCE NOTED AT NECROPSY DUE TO			
Lymph Node	Mediastinal	Adenocarcinoma	Metastatic (Thyroid Gland)
	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 4-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Foreign Body	Moderate
		Inflammation	Chronic Active, Moderate
Note: FOREIGN MATERIAL IS FOOD.			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4351	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 527
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 3-12			
Trachea		Adenocarcinoma	Metastatic (Thyroid Gland)

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:THYROID FOLLICULAR CELL
Animal Note: ADENOCARCINOMA WITH MULTIPLE METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4352	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 555
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Parathyroid Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Transit Epithe	Carcinoma	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 1-11			
Trachea		Adenocarcinoma	Metastatic (Thyroid Gland)

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA WITH METASTASIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4352	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 555
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4353	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Pancreas	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
Liver		Clear Cell Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4354	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Cyst	
		Inflammation	Chronic Active, Minimal
Skin			
Note: GLD ADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS, HEAD, AS NOTED AT NECROPSY, IS ZYMBALS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4354	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 2-10		
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
Note: ADENOCARC TGLs = 5-7		
Zymbal's Gland		Carcinoma
Note: [CARCINOMA] TGLs = 1-11		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: THYROID FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4355	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Salivary Glands	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Duodenum	Necrosis	Coagulative, Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,6,7,8,10-2+7+11+12+14		
Nose		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4355	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 738
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-7			
Preputial Gland		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Prostate		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-13			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Forestomach	Necrosis	Coagulative, Marked
Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-10			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Bilateral, Follicular Cel	Adenoma	Multiple
		Leukemia Mononuclear	
Note: ADENOCARC TGLs = 3-7			
Note: ADENOMA TGLs = 3,4-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4356	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 723
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4-1]			
Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#'S 5&6-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4356	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 723
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 7-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 2,3-12			
PRIMARY CAUSE OF DEATH	-		

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4357	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 3,4-7+12			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4357	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 597
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4358	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Skin			
Note: NECROPSY,IS PREPUTIAL GLD ADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS, RIGHT INGUINAL REGION, AS NOTED AT			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 2-12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4358	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: THYROID GLAND FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4359	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 528
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-1			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4359	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 528
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4360	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney	Epithelium, Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin			
Note: ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS, HEAD, AS NOTED AT NECROPSY, IS			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 3-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4360	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-7			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4361	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: ADENOMA TGLs = 1,2-10			
Note: TGL#1-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 3-11			
Note: ADENOMA TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4361	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4362	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 723
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Prostate
Salivary Glands	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 5-7			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 8-1]			
Liver		Degeneration	Cystic, Moderate
		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 4-4			
Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Stomach	Forestomach	Necrosis	Coagulative, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4362	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 723
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 7-10			
Note: ATROPHY TGLs = 6-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 2,3-12			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MALIGNANT PHEOCHROMOCYTOMA WITH
Animal Note: PULMONARY METASTASES, THYROID GLD FOLLICULAR CELL
Animal Note: ADENOCARCINOMA, HEPATIC NECROSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4363	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 486
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Skin		Hyperkeratosis	Moderate
Note: HYPERKERATOSIS TGLs = 2-12			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Testes	Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4363	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 486
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4364	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 598
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain	Artery	Inflammation	Chronic Active, Marked
Heart		Cardiomyopathy	Chronic, Moderate
	Artery	Inflammation	Chronic Active, Moderate
Intestine Large	Artery, Cecum	Inflammation	Chronic Active, Marked
	Artery, Rectum	Inflammation	Chronic Active, Marked
Kidney	Artery	Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung	Artery, Mediastinum	Inflammation	Chronic Active, Moderate

Note: INFLAMMATION TGLs = 2-2

Lymph Node

Note: MANDIBULAR LYMPH NODE: NORMAL
Note: PULMONARY ARTERIES IN THE MEDIASTINUM HISTOPATHOLOGICALLY.
Note: NECROPSY, IS PERIARTERITIS NODOSA INVOLVING THE
Note: TGL#2-ENLARGED MEDIASTINAL LYMPH NODES, AS NOTED AT
Note: ARTERIES HISTOPATHOLOGICALLY.
Note: NECROPSY,IS PERIARTERITIS NODOSA INVOLVING MESENTERIC

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4364	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 598
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#3-NODULAR MESENTERIC LYMPH NODES, AS NOTED AT			
Mesentery	Artery	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-11			
Pancreas	Artery	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Marked
Salivary Glands	Artery	Inflammation	Chronic Active, Marked
		Necrosis	Moderate
Seminal Vesicle	Artery	Inflammation	Chronic Active, Marked
Skeletal Muscle	Artery	Inflammation	Chronic Active, Marked
Spleen	Artery	Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Stomach	Artery, Glandular	Inflammation	Chronic Active, Marked
Testes	Interstit Cell	Adenoma	
	Artery	Inflammation	Chronic Active, Marked
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
	Artery	Inflammation	Chronic Active, Marked
Note: HYPERPLASIA TGLs = 1-7			
Note: ADENOMA TGLs = 1-7			
Note: ADENOCARC TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PERIARTERITIS NODOSA,
Animal Note: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4365	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 598
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Blood		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Marked
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 6-4			
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4365	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 598
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Forestomach	Necrosis	Coagulative, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#2-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 3-10			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 8-7			
Note: ADENOMA TGLs = 9-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4366	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Pancreas	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Skin	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: TGL#3-NCL-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 2-10			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: AUTOLYTIC.
Animal Note: ALL TISSUES EXAMINED WERE MILDLY TO MODERATELY
Animal Note: CAUSE OF DEATH:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4366	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4367	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 658
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 3-7			
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Clear Cell Focus	
		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4367	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 658
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-11
[Adenocarcinoma TGLS = 4-11]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE, CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4368	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 576
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 3-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	
Note: CLEAR CL FOCUS TGLs = 2-11			
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4368	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 576
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC TGLs = 1-7

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:THYROID GLAND FOLLICULAR CELL
Animal Note: ADENOCARCINOMA AND PNEUMONIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4369	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4-11			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1]			
Testes			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4369	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#1-NCL-TESTES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.

Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	Multiple
	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked

Note: ADENOMA TGLs = 5,6-12
Note: ADENOCARC TGLs = 5,6-12

PRIMARY CAUSE OF DEATH -

Animal Note: THYROID GLAND FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4370	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 506
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Colon	Parathyroid Gland

OBSERVATIONS

Epididymis		Mesothelioma Malignant	
Eye	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Note: HYPERPLASIA TGLs = 3-7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Marked
Note: FOREIGN MATERIAL IS HAIR.			
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4370	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 506
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLS = 4,5-12]

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4371	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 2,3-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4371	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 741
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4372	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-7			
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Kidney	Epithelium, Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
Liver		Degeneration	Cystic, Moderate
Lung		Hemorrhage	Moderate
		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Mild
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4372	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 732
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Marked
[Adenocarcinoma TGLS = 2,3-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: ALL TISSUES EXAMINED WERE MILDLY TO MODERATELY
Animal Note: THROMBOSIS, PULMONARY HEMORRHAGE AND PNEUMONIA.
Animal Note: THYROID FOLLICULAR CELL ADENOCARCINOMA, ATRIAL
Animal Note: CAUSE OF DEATH:SEVERE, CHRONIC NEPHROPATHY,
Animal Note: AUTOLYTIC.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4373	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Hemorrhage	Marked
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 9-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-2+3			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-13			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose		Fungus	
		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Moderate
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4373	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 734
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-SIZE OF LEFT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 7-14			
Note: ADENOCARC TGLs = 6-14			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: THYROID GLAND FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4374	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 735
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Small - Duodenum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum	Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Jejunum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 2-10			
Note: ADENOMA TGLs = 1,2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 3-11			
Note: ADENOCARC TGLs = 4-11			

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4374	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 735
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:THYROID GLAND FOLLICULAR CELL
Animal Note: ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4375	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukocytosis	
		Necrosis	Coagulative, Mild
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 4-7			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin			
Note: TGL'S #1 & 2-SKIN MASSES, LEFT AND RIGHT HEAD			
Note: AS NOTED AT NECROPSY, ARE ZYMBALS GLD CARCINOMAS			
Note: HISTOPATHOLOGICALLY.			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 3-7			
Zymbal's Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1,2-11+12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4375	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 640
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:BILATERAL, ZYMBALS GLD.
Animal Note: CARCINOMAS.THYROID GLD. FOLLICULAR CELL
Animal Note: ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4376	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Minimal
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Leukemia Mononuclear	
Nose		Inflammation	Chronic Active, Moderate
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4376	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 698
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 4-12			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 5-10			
Note: ATROPHY TGLs = 6-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 1,2-7+13			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR LEUKEMIA, THYROID
Animal Note: GLAND FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4377	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Epididymis	Bilateral	Mesothelioma Malignant	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
	Bilateral	Mesothelioma Malignant	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 1,2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4377	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLD FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4378	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Lymph Node	Salivary Glands

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Degeneration	Cystic, Moderate
Note: DEGEN TGLs = 7-4+12			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: MISSING			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-1]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4378	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 618
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-TESTICULAR SIZE CONSIDERED TO BE WNL			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 5,6-7+11			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:SEVERE, CHRONIC NEPHROPATHY,
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4379	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 634
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Small - Ileum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
Note: ADENOCARC TGLs = 2-11			
[Adenocarcinoma TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4379	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 634
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:THYROID GLD FOLLICULAR CELL
Animal Note: ADENOCARCINOMA AND BRONCHOPNEUMONIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4380	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 604
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Blood		Leukemia Mononuclear	
Epididymis	Bilateral	Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 3-10			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 5-12			
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Mesentery			
Note: AT NECROPSY, REPRESENT MALIGNANT MESOTHELIOMA ON			
Note: TGL#3-NODULES INVOLVING TESTICULAR MESENTERY, AS NOTED			
Note: SEROSAL SURFACE OF THE EPIDIDYMIS.			
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Skeletal Muscle		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4380	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 604
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: TGL#1-SKIN LESION, PREPUSE, AS NOTED AT NECROPSY,			
Note: IS PREPUTIAL GLD ADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 2-10			
Thymus		Thymoma Benign	
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 6,7-7+13			
[Adenocarcinoma TGLS = 7-7]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4381	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 682
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4381	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 682
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 7-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-10			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 5,6-7+12			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4382	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intest Large			
Note: CUTANEOUS KERATOACANTHOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-MASS NEAR ANUS, AS NOTED AT NECROPSY, IS			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Adenocarcinoma	Metastatic (Thyroid Gland)
Note: ADENOCARC TGLs = 3-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Minimal
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4382	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 654
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
[Fibrosis TGLS = 2-12]			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 4,5-13			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:THYROID GLD FOLLICULAR CELL
Animal Note: ADENOCARCINOMA WITH MULTIPLE PULMONARY METASTASES,
Animal Note: AND MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4383	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,4-7+11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Fungus	
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Marked
Pancreas	Acinus	Atrophy	Mild
Skin		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4383	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 671
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#1-MASS, SKIN OF FACE, AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-13			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 6-7			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-12			

PRIMARY CAUSE OF DEATH -

Animal Note: ZYMBALS GLD CARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA, AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4384	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 438
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node	Nose
Pancreas	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Congestion	Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ADENOMA] TGLs = 2-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Mild
Note: [ADENOCARC] TGLs = 3-7			
Note: [ADENOMA] TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4384	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 438
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH: UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4385	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Salivary Glands	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-4			
Intestine Small	Duodenum	Inflammation	Chronic Active, Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-7			
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Skin		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4385	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 724
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 4-7			
Note: ADENOMA TGLs = 4,5-10			

PRIMARY CAUSE OF DEATH -

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA, AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4386	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 634
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node	Nose
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 8-7			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4,6-1			
Liver		Angiectasis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Note: ANGIECTASIS TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Pancreas	Acinus	Atrophy	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Salivary Glands		Adenocarcinoma	Metastatic (Thyroid Gland)
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-11			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4386	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 634
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 7-10		
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
Note: ADENOCARC TGLs = 3-12		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CELL ADENOCARCINOMA.
Animal Note: CHRONIC NEPHROPATHY, AND THYROID GLD FOLLICULAR
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA, SEVERE,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4387	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Salivary Glands		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-SIZE OF RIGHT TESTICLE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 2,3-10			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4387	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 743
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 5-11			
Note: ADENOMA TGLs = 6-11			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4388	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 583
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-2+7			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 9-7			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4388	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 583
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
Note: ATROPHY TGLs = 6-10			
Note: ADENOMA TGLs = 5,7-10			
Thymus		Ectopic Parathyroid Gland	
		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4389	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Carcinoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
		Thrombosis	
Note: LEUKEMIA MONUC TGLs = 5-4			
Note: NECROSIS TGLs = 3-4			
Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
		Thrombosis	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4389	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10		
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
	Bilateral, Follicular Cel	Adenoma
Note: ADENOCARC TGLs = 4,6-7+11		

PRIMARY CAUSE OF DEATH -

Animal Note: PULMONARY INFLAMMATION,AND THYROID GLD FOLLICULAR
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4390	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 4-11			
Note: LEUKEMIA MONUC TGLs = 6-4			
[Vacuolization Cytoplasmic TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4390	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 619
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 7-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 1,2-7+12			
PRIMARY CAUSE OF DEATH	-		

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4391	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 646
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 4-12			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Skin			
Note: TGL#1-MASS,LEFT SIDE OF FACE, AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 2-10			
Note: ATROPHY TGLs = 3-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4391	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 646
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland	Carcinoma
Note: CARCINOMA TGLs = 1-11	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:HEPATOCELLULAR CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4392	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 6-7			
Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4392	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 657
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-TESTICULAR SIZE CONSIDERED TO BE WNL			
Note: ADENOMA TGLs = 4-10			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
Note: ADENOCARC TGLs = 2-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA, AND
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4393	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 7-1			
Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-11			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4393	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 712
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Fibrosis TGLS = 6-12]			
[Leukemia Mononuclear TGLS = 5-12]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 1-13			
[Adenocarcinoma TGLS = 2-13]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4394	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 521
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Pancreas	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Urinary Bladder

MISSING

Intestine Large - Cecum

OBSERVATIONS

Esophagus		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Moderate
Salivary Glands		Inflammation	Chronic Active, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
Note: ATROPHY TGLs = 4-10			
Note: ADENOMA TGLs = 3,5-10			
Thymus		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 2-2			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 1-11			
Trachea		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4394	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 521
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:THYROID GLD FOLLICULAR CELL
Animal Note: ADENOCARCINOMA, AND ASSOCIATED INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4395	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-5			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4395	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 538
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-10			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Urinary Bladder		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4396	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 585
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 1,2-7+11			

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:THYROID GLD FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4397	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 418
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
Note: ADENOCARC TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:THYROID GLD FOLLICULAR CELL
Animal Note: ADENOCARCINOMA AND ASSOCIATED INFLAMMATION.
Animal Note: CONTRIBUTING FACTOR: PNEUMONIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4398	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 544
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Necrosis	Coagulative, Marked
	Cortex	Osteosarcoma	Metastatic (Uncertain Primary Site)
Bone Marrow	Femoral	Osteosarcoma	Metastatic (Uncertain Primary Site)
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: [OSTEOSARC] TGLs = 4,5,10-12+13+14			
Lung		Leukemia Mononuclear	
		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: [OSTEOSARC] TGLs = 9-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 1,6,11-2+7+15			
Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4398	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 544
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 2-11			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: [ADENOCARC] TGLs = 7-7			
Note: [ADENOMA] TGLs = 8-7			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:METASTATIC HEPATIC AND PULMONARY
Animal Note: OSTEOSARCOMA. PRIMARY SITE UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4399	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 636
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Eye	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Eye			
Note: YELLOW COLOR, AS NOTED AT NECROPSY, PROBABLY DUE			
Note: TO JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: TGL#1-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,4,6-2+12+13			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4399	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 636
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Fungus	
		Inflammation	Chronic Active, Mild
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4400	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
Note: DEGEN TGLs = 10-12			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2,3,4-2+5+7+11+14]			
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4400	**TRT#:** 8	**SEX:** Male	**DAY ON TEST:** 744
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ATROPHY TGLs = 12-10			
Note: ADENOMA TGLs = 11-10			
Thymus		Leukemia Mononuclear	
		Thymoma Benign	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: ADENOCARC TGLs = 7-7			
Note: ADENOMA TGLs = 8-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4701	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Fibrosis	Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA, AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4702	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 624
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Eye			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: FROM BOTH EYES NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4702	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 624
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4703	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 658
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Bone	Mandible	Osteosarcoma	
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 3-7			
Note: CYST TGLs = 3-7			
Salivary Glands	Acinus	Atrophy	Marked
Skin		Keratoacanthoma	
	Lip, Subcut Tiss	Osteosarcoma	Metastatic (Bone)
Note: OSTEOSARC TGLs = 1-11			
Note: KERATOACANTHMA TGLs = 2-12			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4703	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 658
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:OSTEOSARCOMA OF MANDIBLE.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4704	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4705	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: CYST TGLs = 2-7			
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4706	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 538
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,VENTRAL THORACIC REGION, AS NOTED AT			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: VENTRAL THORACIC REGION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4706	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 538
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:LARGE MAMMARY GLD FIBROADENOMA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4707	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
		Hydrocephalus	Minimal
Eye			
Note: RATS NORMALL HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED AT NECROPSY.			
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CHRONIC-ACTIVE INFLAMMATION OF FORESTOMACH.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLAND ADENOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4708	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 547
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Uterus	

MISSING

Thymus	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 4-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4708	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 547
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: SECONDARY TO MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR NOTED CLINICALLY DUE TO JAUNDICE
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4709	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth		Inflammation	Chronic Active, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4710	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
		Hemorrhage	Marked

Note: CATARACT TGLs = 1-11
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN
Note: NOTED CLINICALLY.
Note: CONTENT. THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE
[Cataract TGLS = 1-11]

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			

Note: MANDIBULAR LYMPH NODE NORMAL.

Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4710	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
[Adenoma TGLS = 2-7]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: COMPRESSION OF HYPOTHALMUS AND HYDROCEPHALUS.
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH RESULTANT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4711	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 654
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum	Intestine Small - Jejunum

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Moderate
Kidney		Mineralization	Moderate
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Spleen		Atrophy	Moderate
Note: ATROPHY TGLs = 1-1			
Stomach	Glandular	Mineralization	Moderate
Tongue		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 3-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE, CHRONIC NEPHROPATHY AND
Animal Note: RESULTING UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4712	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 466
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 1-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4713	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-11]			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,VENTRAL THROACIC REGION, AS NOTED AT			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:LARGE MAMMARY GLD FIBROADENOMA
Animal Note: INVOLVING THE VENTRAL THORACIC REGION.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4714	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4715	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Skin			
Note: ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT FACE,AS NOTED AT NECROPSY, IS			
Thyroid Gland	C Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4716	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 544
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Eye		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-11			
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin		Alopecia	
Note: ALOPECIA TGLs = 1-7+12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4717	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 424
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Mesothelioma Malignant	
Kidney		Mesothelioma Malignant	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-11+12]			
Pancreas		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-12]			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	
Stomach	Forestomach	Mesothelioma Malignant	
	Glandular	Mesothelioma Malignant	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MALIGNANT MESOTHELIOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4718	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 718
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Marked
Kidney		Nephropathy	Chronic, Moderate
Liver		Vacuolization Cytoplasmic	Marked
Lung		Chordoma	Metastatic (Uncertain Primary Site)
Note: CHORDOMA TGLs = 1-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Stomach	Forestomach	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Adenoma	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: METASTASES.PRIMARY SITE UNDETERMINED.
Animal Note: CAUSE OF MORBIDITY:LIPOSARCOMA WITH PULMONARY

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4719	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Note: ADENOMA TGLs = 2-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS RIGHT AXILLARY REGION, AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4720	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE MISSING.			
Note: LEUKEMIA MONUC TGLs = 2-11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Note: CONTENT. THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Skin			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4720	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: YELLOW COLOR OF SKIN NOTED CLINICALLY DUE TO JAUNDICE

Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4721	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 1-10			
Pancreas	Acinus	Atrophy	Marked
Pituitary Gl			
Note: TGL#4-NCL-PITUITARY GLD CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4722	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 594
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Thyroid Gland	Tooth	Trachea	

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Adenocarcinoma	Metastatic (Uterus)
Note: ADENOCARC TGLs = 4-7			
Kidney		Adenocarcinoma	Metastatic (Uterus)
Liver		Adenocarcinoma	Metastatic (Uterus)
Lung		Adenocarcinoma	Metastatic (Uterus)
[Adenocarcinoma TGLS = 1-2+3]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Adenocarcinoma	Metastatic (Uterus)
Ovary		Adenocarcinoma	Metastatic (Uterus)
Pancreas		Adenocarcinoma	Metastatic (Uterus)
Note: ADENOCARC TGLs = 6-6			
Pituitary Gl			
Note: TGL#2-NCL-PITUITARY GLD APPEARED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Spleen		Adenocarcinoma	Metastatic (Uterus)
[Adenocarcinoma TGLS = 5-1]			
Stomach	Forestomach, Glandular	Adenocarcinoma	Metastatic (Uterus)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4722	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 594
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder	Adenocarcinoma	Metastatic (Uterus)
Uterus	Adenocarcinoma	
[Adenocarcinoma TGLS = 3-11]		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UTERINE ADENOCARCINOMA WITH
Animal Note: MULTIPLE METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4723	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Note: BASOPH FOCUS TGLs = 3-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,LEFT AXILLARY REGION,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4724	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 667
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-11+13			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4724	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 667
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Mild
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-12			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4725	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4726	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Intermed	Cyst	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
Note: ADENOCARC TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4727	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Mammary Gland	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Nose		Inflammation	Chronic Active, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4728	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 526
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Thymus	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

OBSERVATIONS

Brain		Compression	
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Mild
		Basophilic Focus	
Note: ANGIECTASIS TGLs = 1-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Thyroid Gland		Ultimobranchial Cyst	
Uterus		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 3-10			

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4728	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 526
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4729	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Skin	Stomach - Glandular	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
		Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Hepatodiaphragmatic Nodule TGLS = 6-11]			
Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4729	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,4,5-2+5+6+7+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY.			
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Marked
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: [ADENOMA] TGLs = 1-7			
Note: ANGIECTASIS TGLs = 1-7			
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-1			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Uterus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4730	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 561
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Nose
Ovary	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Note: CATARACT TGLs = 1-11			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-MESENTERIC LYMPH NODES CONSIDERED TO BE WNL			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4730	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 561
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NOTED CLINICALLY.			
Pancreas	Acinus	Atrophy	Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4731	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 508
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 1-1			
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4731	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 508
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4732	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
Note: DILATATION TGLs = 3-10			
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED HISTOPATHOLOGICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 1,2-11+12			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Cyst	
Note: CYST TGLs = 4-10			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4732	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 5-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			
Note: TGL#'S 1&2-SKIN MASSES,RIGHT & LEFT AXILLA,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4733	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
Eye		Hemorrhage	Mild
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: HEMORRHAGE TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-1			
Liver			
Note: TGL#3-NCL-LIVER CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Necrosis	Coagulative, Marked
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4733	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	

Note: STROMAL POLYP IS NECROTIC AND INFLAMMED. ITS PRESENCE
Note: POLYP STROMAL TGLs = 4-12
Note: ACCOUNTS FOR THE RED VAGINAL DISCHARGE SEEN CLINICALLY.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4734	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 561
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Marked
Note: DILATATION TGLs = 2-11			
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: TGL#2-SKIN MASS,INGUINAL REGION,AS NOTED AT NECROPSY,			
Note: IS DILATED CLITORAL GLD DUCT HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4734	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 561
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4735	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-1]			
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4736	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-7			
Note: CYST TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL TGLs = 3-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4737	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Astrocytoma Malignant	
Note: ASTROCYTO MAL TGLs = 2-12			
Kidney		Fibrosis	Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 7-1]			
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 8-15			
[Hepatodiaphragmatic Nodule TGLS = 9-4+15]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-7+11			
Ovary		Leukemia Mononuclear	
Note: ENGORGEMENT WITH BLOOD.			
Note: TGL#4-NCL-RED COLOR NOTED AT NECROPSY DUE TO			
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4737	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Moderate
Skin			
Note: TGL#1-SKIN MASS,RIGHT VENTRAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-14			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Cervix	Diverticulum	Marked
	Endometrium	Hyperplasia	Cystic, Glandular, Mild
		Polyp Stromal	
Note: DIVERTICULUM TGLs = 5-13			
Note: POLYP STROMAL TGLs = 3-10			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;
Animal Note: MALIGNANT ASTROCYTOMA, CEREBRUM.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4738	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4738	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4739	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 2,3,4-12+13+14			
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 5-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4739	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-2			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4740	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
		Nephropathy	Chronic, Minimal
Note: LEUKEMIA MONUC TGLs = 1-1			
Note: NECROSIS TGLs = 1-1			
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 7-14			
Note: LEUKEMIA MONUC TGLs = 6-4+14			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 2,3-11+12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4740	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 5-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#'S 2&3-SKIN MASSES,VENTRAL NECK AND LEFT AXILLA,AS			
Note: NOTED AT NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-13			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4741	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Medulla	Hyperplasia	Mild
Clitoral Gland		Adenoma	
	Duct	Dilatation	Marked
		Hyperplasia	Moderate
		Inflammation	Chronic Active, Marked
Note: DILATATION TGLs = 2-10			
Note: HYPERPLASIA TGLs = 2-10			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4742	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Clitoral Gl			
Note: SUBCUTANEOUS FIBROSARCOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-CLITORAL GLD MASS,AS NOTED AT NECROPSY,IS			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-11			
Note: CUTANEOUS FIBROSARCOMA CONTAINS MULTIPLE FOCI OF			
Note: NECROSIS.			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Adenoma	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4742	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:SEVERE,CHRONIC NEPHROPATHY WITH
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4743	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland		Adenoma	
Note: LOGICAL EXAMINATION.			
Note: ADENOMA TGLs = 2-10			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHO-			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 3-10+11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4743	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.
Note: TGL#3-SKIN MASS,INGUINAL REGION,AS NOTED AT NECROPSY,

Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4744	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: YELLOW EYES,AS NOTED CLINICALLY,DUE TO JAUNDICE			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Intest Large			
Note: TGL#5-NCL-CECUM CONSIDERED TO BE WNL HISTOPATHO-			
Note: LOGICALLY.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-12]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4744	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 2-7			
Skin			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW SKIN,AS NOTED CLINICALLY,DUE TO JAUNDICE			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
Note: [CARCINOMA] TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4745	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 523
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Blood

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: TGL#2-NCL-LEFT EYE CONSIDERED TO BE WNL			
Note: CATARACT TGLs = 1-11			
Note: HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Note: LEUKEMIA MONUC TGLs = 7-05			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,5-6+7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4745	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 523
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 8-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4746	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung	Mediastinum, Perivascular	Inflammation	Chronic Active, Marked
Lymph Node			
Note: TO ENGORGEMENT WITH BLOOD.			
Note: TGL#4-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Note: HISTOPATHOLOGICALLY.RED COLOR,NOTED AT NECROPSY DUE			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 1-12			
Note: HYPERPLASIA TGLs = 2-11			
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 3-13			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin			
Note: LEFT AXILLA,AS NOTED AT NECROPSY,ARE MAMMARY GLD.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4746	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROADENOMA AND CYSTIC HYPERPLASIA HISTOPATHOLOGICALLY.
Note: TGL#'S 1&2-SKIN MASSES,RIGHT LATERAL CERVICAL AREA AND

Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4747	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node	Mandibular	Cyst	
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4748	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 718
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Myelofibrosis	Moderate
Brain		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 2-5			
Eye			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 3-11			
Nose		Inflammation	Chronic Active, Minimal
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4748	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 718
	DOSE: 0 PPM 0-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#3-SKIN MASS,LEFT HINDLIMB,NOTED AT NECROPSY, IS			
Spinal Cord		Hemorrhage	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MONONUCLEAR CELL LEUKEMIA.
Animal Note: CAUSE OF MORBIDITY:POSTERIOR PARALYSIS;
Animal Note: MONONUCLEAR CELL LEUKEMIA.
Animal Note: POSTERIOR PARALYSIS NOTED CLINICALLY DUE TO
Animal Note: SPINAL CORD HEMORRHAGE PROBABLY SECONDARY TO THE

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4749	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 0-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 3-10			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
		Leiomyoma	
Note: LEIOMYOMA TGLs = 1-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4750	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 559
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 1-10]			
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-7			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4750	**TRT#:** 9	**SEX:** Female	**DAY ON TEST:** 559
	DOSE: 0 PPM 0-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4751	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4752	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-12			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 3-11			
Note: TGL#1-SKIN MASS,VENTRAL,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: AND HYDROCEPHALUS.
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4752	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4753	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland		Inflammation	Chronic Active, Moderate
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHO-			
Note: LOGIC EXAMINATION.			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-12]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 3-11			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 2-7			
Skin			
Note: TGL#3-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY,IS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4753	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4754	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thyroid Gland	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Medulla	Hyperplasia	Mild
Note: ADENOMA TGLs = 6-7			
Blood		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-11+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Stomach	Forestomach	Acanthosis	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4754	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Mild
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4755	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 668
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Thyroid Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Moderate
Note: DILATATION TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
[Leukemia Mononuclear TGLS = 2-2]			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 5-10]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4756	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4757	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4758	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 2-7			
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4758	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4759	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: TGL#6-NCL-MULTIPLE BROWN FOCI,AS NOTED AT TRIM, ARE			
Note: DUE TO ENGORGEMENT OF SINUSOIDS WITH BLOOD.CONSIDERED			
Note: TO BE WNL HISTOPATHOLOGICALLY.			
Blood		Leukemia Mononuclear	
Brain		Compression	
Clitoral Gland	Duct	Dilatation	Moderate
Note: DILATATION TGLs = 2-10			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Lipoma	
		Nephropathy	Chronic, Moderate
Note: LIPOMA TGLs = 4-11			
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 7-12]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4759	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-12]			
Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4760	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Clitoral Gland		Hyperplasia	Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE OCULAR DISCHARGE NOTED			
Note: CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Vacuolization Cytoplasmic	Marked
Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4760	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen			
Note: TGL#1-NCL-SPLEEN CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: GASTRIC ULCERS.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: POSSIBLE TERMINAL UREMIA,
Animal Note: PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4761	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4762	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenoma	
Note: ADENOMA TGLs = 1-12			
Ovary		Atrophy	Moderate
		Cyst	
[Atrophy TGLS = 2,3-10+11]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4762	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4763	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: CLEAR CL FOCUS TGLs = 3-11			
[Hepatodiaphragmatic Nodule TGLS = 4-12]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Diverticulum	Marked
	Endometrium	Hyperplasia	Cystic, Glandular, Marked
	Cervix	Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4763	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DIVERTICULUM TGLs = 2-12

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4764	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-13]			
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2,3-11+12			
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 6-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT LATERAL THORAX,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Dilatation	Mild
	Endometrium	Hyperplasia	Cystic, Glandular, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4764	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 5-14]
[Hyperplasia TGLS = 4-14]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4765	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Dilatation	Moderate
	Cervix	Diverticulum	Marked
Note: DIVERTICULUM TGLs = 2-11			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4766	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 706
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node	Nose	Ovary	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Liver		Histiocytic Sarcoma	
Note: [HISTIO SARC] TGLs = 1-4			
Lung		Histiocytic Sarcoma	
Note: [HISTIO SARC] TGLs = 2-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:LYMPHOMA,MALIGNANT HISTIOCYTIC.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4767	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 431
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MASSIVE MAMMARY GLD.
Animal Note: FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4768	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Note: DILATATION TGLs = 6-12			
Heart	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Note: TGL#4-NCL-OVARIAN CYST NOT APPARENT HISTOPATHOLOGICALLY.			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-7			
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4768	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 712
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 5-11			
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Moderate
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4769	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 488
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[Fibroadenoma TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Minimal
Skin			
Note: MAMMARY GLD. FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT VENTRAL,AS NOTED AT NECROPSY, IS			
Thyroid Gland	C Cell	Adenoma	
Uterus		Dilatation	Marked
	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
Note: DILATATION TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:LARGE MAMMARY GLD.
Animal Note: FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4770	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
[Hyperplasia TGLS = 2-12]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4771	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 528
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Lung	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Thymus	Tooth
Trachea			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node	Pancreas	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Liver		Basophilic Focus	
Mammary Gland		Hyperplasia	Cystic, Mild
Uterus		Dilatation	Marked
		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MASSIVE UTERINE STROMAL
Animal Note: POLYP.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4772	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4773	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 236
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Lymph Node		
Note: MANDIBULAR LYMPH NODE: NORMAL.		
Note: MA		
Nose	Inflammation	Chronic Active, Minimal
Uterus	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4774	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 704
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tooth
Uterus			

MISSING

Mammary Gland	Skin

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hematocyst	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-4+11			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2			
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 6-7			
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4774	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 704
	DOSE: 0 PPM 10-0	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-2		
Trachea		Leukemia Mononuclear
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4775	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

PRESENT BUT NOT EXAMINED

Bone

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Stomach	Glandular	Infiltration Cellular	Lymphocyte, Mild
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4775	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD. ADENOMA WITH
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4776	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Brain		Compression	
		Hydrocephalus	Mild
Clitoral Gland	Duct	Dilatation	Moderate
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4776	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-12]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4777	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4778	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose		Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4779	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pancreas	Acinus	Atrophy	Minimal
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-11			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4779	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-12

Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4780	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 3-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4781	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
		Prolapse	
Note: POLYP STROMAL TGLs = 1-11			
Note: PROLAPSE TGLs = 1-11			
Vagina			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-VAGINA DID NOT APPEAR TO BE PROLAPSED			

PRIMARY CAUSE OF DEATH -

Animal Note: STROMAL POLYP.
Animal Note: CAUSE OF MORBIDITY:PROLAPSED UTERUS CONTAINING A

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4782	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 674
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4782	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 674
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: PITUITARY GLD ADENOMA WITH RESULTLANT
Animal Note: COMPRESSION OF HYPOTHALMUS AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4783	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Note: HYPERPLASIA TGLs = 2-7			
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-7			
Skin			
Note: TGL#2-SKIN NODULE,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD HYPERPLASIA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Hemangioma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4783	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Marked
	Cervix	Squamous Cell Carcinoma	
Note: DIVERTICULUM TGLs = 4-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4784	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4784	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4785	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Marked
Note: DILATATION TGLs = 1-10			
[Inflammation TGLS = 1-10]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Stomach			
Note: TGL#2-NCL-NODULE,AS NOTED AT TRIM,NOT APPARENT			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4786	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 609
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Eye
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye			
Note: TGL#6-NCL-YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2,3-5+7+12+13			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4786	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 609
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 7-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CLINICALLY AND AT NECROPSY IS PROBABLY DUE TO
Animal Note: YELLOW COLOR OF TISSUES AND BODY CAVITIES NOTED
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL
Animal Note: LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4787	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 3-11]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4788	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1,2-11+12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 4-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#'S 1&2-SKIN MASSES,LEFT AXILLA AND LEFT INGUINAL,AS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4788	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NOTED AT NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4789	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
Note: HYPERPLASIA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4789	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4790	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Inflammation	Chronic, Mild
		Necrosis	Coagulative, Mild
Note: [HEPATOCLR ADEN] TGLs = 4-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-13]			
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Ovary		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4790	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-12]			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4791	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
Note: TGL#1-NCL-RIGHT LENS LOST DURING SECTIONING.			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2-11]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Hemorrhage	Moderate
		Inflammation	Chronic Active, Mild
[Hemorrhage TGLS = 3-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4791	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-12]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4792	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 1-11]			
Pancreas		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4792	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4793	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 683
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
	Cortex	Necrosis	Coagulative, Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
[Cataract TGLS = 1-11]			
Heart	Atrium	Thrombosis	
Note: THROMBUS TGLs = 6-4			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4793	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 683
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Ovary		Cyst	
Note: CYST TGLs = 4,5-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-7			
Skin			
Note: YELLOW COLOR OF SKIN,AS NOTED CLINICALLY AND AT			
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO			
Note: THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Atrophy	Moderate
		Leukemia Mononuclear	
Note: ATROPHY TGLs = 2-1			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4794	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 5-7			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Clitoral Gl			
Note: PROBABLY DUE TO MAMMARY GLD HYPERPLASIA IN			
Note: PATHOLOGICALLY.ENLARGEMENT,AS NOTED AT NECROPSY, IS			
Note: TGL#2-NCL-CLITORAL GLDS CONSIDERED TO BE WNL HISTO-			
Note: SURROUNDING CONNECTIVE TISSUE.			
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Marked
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Note: PROBABLY DUE TO ENGORGEMENT WITH BLOOD.			
Note: TGL#3-NCL-LIVER ENLARGEMENT,AS NOTED AT NECROPSY, IS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4794	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Inflammation	Chronic Active, Moderate
	Artery, Mediastinum	Mineralization	Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11]			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Skin			
Note: TGL#1-SKIN MASS, LEFT LATERAL BODY,AS NOTED AT NECROPSY,			
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Stomach	Glandular, Mucosa	Degeneration	Chronic, Moderate
	Glandular	Mineralization	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: PROBABLE TERMINAL UREMIA.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4795	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1,2-11+12]			
Ovary		Cyst	
[Cyst TGLS = 3-13]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4795	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: REGION,AS NOTED AT NECROPSY,ARE MAMMARY GLD
Note: TGL'S #1&2-SKIN MASSES,RIGHT AXILLA AND RIGHT INGUINAL
Note: FIBROADENOMAS HISTOPATHOLOGICALLY.

Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4796	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 658
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hematocyst	
	Medulla	Hyperplasia	Mild
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			
Liver			
Note: TGL#3-NCL-LIVER CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
Note: CYST TGLs = 4-7			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-1			
Thyroid Gland	C Cell	Hyperplasia	Mild
Vagina			
Note: TGL#1-VAGINAL MASS,AS NOTED AT NECROPSY, IS CLITORAL			
Note: GLAND CARCINOMA HISTOPATHOLOGICALLY.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4796	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 658
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:CLITORAL GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4797	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 480
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: CATARACT TGLs = 1-11
Note: NOTED CLINICALLY AND AT NECROPSY.
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN

Intestine Small	Ileum, Jejunum	Sarcoma Stromal	Metastatic (Uncertain Primary Site)
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			

Note: TGL#8-NCL-MESENTERIC L N CONSIDERED TO BE WNL HISTO-
Note: TISSUE AND THESE MAY HAVE APPEARED AS ENLARGED NODES
Note: GROSSLY.
Note: MANDIBULAR LYMPH NODE: NORMAL.
Note: PATHOLOGICALLY.
Note: PATHOLOGICALLY.THERE WERE SEVERAL NODULES OF METASTATIC
Note: TGL#6-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL HISTO-
Note: UTERINE STROMAL SARCOMA IN THE SURROUNDING ADIPOSE

Mammary Gland		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4797	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 480
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Sarcoma Stromal	Metastatic (Uterus)
Note: SARC STROMAL TGLs = 3,4-6+13+14+16			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 7-7			
Skeletal Muscle	Diaphragm	Sarcoma Stromal	Metastatic (Uterus)
Note: SARC STROMAL TGLs = 5-12			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Sarcoma Stromal	Metastatic (Uterus)
Uterus		Sarcoma Stromal	
Note: SARC STROMAL TGLs = 2-10+15			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:UTERINE STROMAL SARCOMA
Animal Note: MULTIPLE METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4798	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 690
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: CATARACT TGLs = 1-12
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN
Note: NUCLEAR CELL LEUKEMIA.
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-
Note: YELLOW COLOR,AS NOTED CLINICALLY AND AT NECROPSY IS
Note: NOTED CLINICALLY AND AT NECROPSY.
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE

Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 8-4

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4798	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 690
	DOSE: 0 PPM 10-0	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4,5,6-2+5+7+6			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 2-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4799	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4800	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 1-7			
Note: HYPERPLASIA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Uterus		Dilatation	Moderate
	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
		Polyp Stromal	
Note: HYPERPLASIA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4800	**TRT#:** 10	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 0 PPM 10-0	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 2-10]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4801	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLAND TISSUE ON SLIDE #10.			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Perivascular	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-11			
Vagina			
Note: TGL#3-MASS IN VAGINAL LUMEN,AS NOTED AT NECROPSY,IS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4801	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PROLAPSED UTERINE STROMAL POLYP HISTOPATHOLOGICALLY.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4802	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
[Dilatation TGLS = 3-11]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4803	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 610
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Nose

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: NASAL SECTIONS MISSING. NO BLOCK #8.			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4803	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 610
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-7			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4804	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 581
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Skin			
Note: CELL LEUKEMIA.			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4804	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 581
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4805	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 700
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1,2-11+12]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4805	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 700
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4806	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 557
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
		Thrombosis	
Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 4-2+3			
[Leukemia Mononuclear TGLS = 4-2+3]			
Lymph Node			
Note: WNL HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-MESENTERIC LYMPH NODE CONSIDERED TO BE			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-10			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4806	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 557
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA,
Animal Note: PNEUMONIA,AND OVARIAN ABSCESS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4807	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: CYST TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4808	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 523
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Stomach - Forestomach	Tooth	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye	Retina	Atrophy	Moderate
		Hemorrhage	Marked
		Inflammation	Chronic Active, Moderate
Note: HEMORRHAGE TGLs = 1-12			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-6+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#8-NCL-OVARY SIZE CONSIDERED TO BE WNL			
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4808	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 523
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6			
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 9-7			
Salivary Glands		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 3-11			
Note: LEUKEMIA MONUC TGLs = 2-11			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4809	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 735
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Bone		Chondrosarcoma	
[Chondrosarcoma TGLS = 1-11]			
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: CHONDROSARCOMA OF BONE HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS ON TAIL,AS NOTED AT NECROPSY,IS			
Note: INGUINAL SKIN APPEARED NORMAL HISTOPATHOLOGICALLY.			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
		Inflammation	Chronic Active, Marked
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4809	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 735
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3,4-12]
[Inflammation TGLS = 3,4-12]
[Polyp Stromal TGLS = 3-12]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4810	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLAND TISSUE ON SLIDE # 10.			
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pancreas	Perivascular	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4811	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Atypia Cellular	
Clitoral Gland	Duct	Dilatation	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenoma	
		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4812	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 511
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: TGL#2-NCL-MANDIBULAR LYMPH NODE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

Animal Note: CORD WAS NOT SAVED AT NECROPSY SO ARE
Animal Note: FORELIMB.CERVICAL AND THORACIC SPINAL
Animal Note: CLINICAL OBSERVATION.
Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.PROBABLY
Animal Note: UNABLE TO DETERMINE IF A SPINAL CORD
Animal Note: LESION WAS RESPONSIBLE FOR THIS
Animal Note: ASSOCIATED WITH THE NONFUNCTIONAL RIGHT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4813	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Spleen		Fibrosis	Mild
[Fibrosis TGLS = 1-1]			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4813	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Polyp Stromal
Note: POLYP STROMAL TGLs = 2-11	

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4814	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Brain			
Note: TGL#6-NCL-CEREBELLUM CONSIDERED TO BE WNL HISTOPATHO-			
Note: ENGORGEMENT OF MENINGEAL VESSELS WITH BLOOD.			
Note: LOGICALLY.RED PIGMENT,AS NOTED AT NECROPSY,PROBABLY DUE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
Note: EXAMINATION AND RECUTTING OF REMAINING WET TISSUE WAS			
Note: NOTED AT NECROPSY,NOT APPARENT HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-SMALL,YELLOW NODULE,RIGHT POSTERIOR LOBE, AS			
Note: NOT HELPFUL IN IDENTIFYING THE LESION EITHER.			
[Vacuolization Cytoplasmic TGLS = 2,3-11]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-13]			
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4814	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 7-7			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
[Adenocarcinoma TGLS = 5-14]			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4815	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Minimal
Bone		Chondrosarcoma	
Note: CHONDROSARCOMA TGLs = 1-11			
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-10			
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS INVOLVING THE TAIL,AS NOTED AT NECROPSY,			
Note: IS CHONDROSARCOMA ARISING FROM THE BONE OF THE TAIL			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4815	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4816	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-14			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 5-13			
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 6-15]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4816	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 7-7			
Skin			
Note: TGL#5-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4817	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 699
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Salivary Glands
Skin	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: PALE COLOR,AS NOTED CLINICALLY AND AT NECROPSY,IS			
Note: PROBABLY DUE TO ANEMIA SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4817	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 699
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-2+12			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Atrophy	Marked
		Cyst	
Note: CYST TGLs = 5-10			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-13			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Moderate
	Glandular	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4818	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4819	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 606
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Bone Marrow

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum, Perivascular	Inflammation	Chronic Active, Marked
	Artery, Cecum	Necrosis	Fibrinoid, Marked
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 1-1]			
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung	Mediastinum, Perivascular	Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4819	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 606
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Perivascular	Inflammation	Chronic Active, Marked
	Artery	Necrosis	Fibrinoid, Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
		Ultimobranchial Cyst	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: POLYARTERITIS NODOSA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4820	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-7			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4821	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: TGL#2-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4821	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-12]			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Note: CARCINOMA TGLs = 4-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4822	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Atrophy	Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Bilateral, C Cell	Adenoma	
Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4823	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4824	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4825	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	
	Ventricle	Thrombosis	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
Note: VACUOLIZ CYTO TGLs = 1-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4825	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Intermed	Cyst	
		Leukemia Mononuclear	
Skin			
Note: DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR CELL			
Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY, PROBABLY			
Note: LEUKEMIA.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
	Glandular	Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4826	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4827	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4827	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4828	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Intest Large			
Note: IDENTIFY THIS LESION, WERE UNREWARDING.			
Note: TGL#5-NCL-RECTAL NODULE,AS NOTED AT TRIM, NOT APPARENT			
Note: HISTOPATHOLOGICALLY. RE-CUTTING OF BLOCK AND RE-			
Note: EXAMINATION OF REMAINING WET TISSUE, IN AN ATTEMPT TO			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4828	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic Active, Mild
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-11			
Ovary		Cyst	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus		Leiomyoma	
Note: LEIOMYOMA TGLs = 1-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4829	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Cyst	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
[Hyperplasia TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4829	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4830	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland		Hyperplasia	Mild
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Note: EXAMINATION.			
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLD TISSUE ON SLIDE # 10.			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Moderate
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4830	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4831	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 652
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Tongue		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC] TGLs = 1-12			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4832	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLD TISSUE ALSO ON SLIDE # 10.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4833	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 636
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			

PRIMARY CAUSE OF DEATH -

Animal Note: PITUITARY GLD ADENOMA WITH RESULTANT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4833	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 636
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: HYDROCEPHALUS.
Animal Note: COMPRESSION OF HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4834	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gl			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Note: EXAMINATION.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Note: ONLY ONE SECTION OF LIVER AVAILABLE FOR HISTOPATHOLOGIC			
Note: EXAMINATION.			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4835	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Intestine Small - Ileum

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Stomach	Forestomach	Hyperplasia	Squamous, Focal, Marked
	Glandular	Mineralization	Mild
Note: [HYPERPLASIA] TGLs = 2-11			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4836	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Carcinoma	Metastatic (Pituitary Gland)
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2,3-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4837	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 3-12			
[Leukemia Mononuclear TGLS = 2-12]			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4837	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-7	
Uterus	Polyp Stromal
Note: POLYP STROMAL TGLs = 5-11	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4838	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 447
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Brain	Astrocytoma Malignant	
	Hydrocephalus	Mild
Note: [ASTROCYTO MAL] TGLs = 4-5		
Liver	Inflammation	Chronic, Mild
Lymph Node		
Note: MANDIBULAR LYMPH NODE: NORMAL.		
Mammary Gland	Hyperplasia	Cystic, Minimal
Ovary	Cyst	
[Cyst TGLS = 2,3-10]		
Pituitary Gl		
Note: DURING SECTIONING.		
Note: TGL#1-NCL-PITUITARY GLD MISSING,PROBABLY LOST		

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MAL BRAIN TUMOR.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4839	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Kidney	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Islets, Pancreatic		Adenoma	
Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 3-13]			
Pancreas	Acinus	Atrophy	Mild
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 4-12			
[Leukemia Mononuclear TGLS = 2-12]			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4839	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus		Dilatation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4840	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4841	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4842	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4842	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA
Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4843	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-11			
Note: STROMAL POLYPS WERE INFARCTED.			

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4844	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4845	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Moderate
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Moderate
		Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4845	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin		Cyst Epithelial Inclusion	
Stomach	Forestomach	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

Animal Note: AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA
Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4846	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary			
Note: TGL#1-NCL-CYST,LEFT OVARY,AS NOTED AT NECROPSY, NOT			
Note: APPARENT HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-SIZE OF RIGHT OVARY CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gl			
Note: TGL#5-NCL-THYROID GLANDS WERE AUTOLYTIC BUT THEIR			
Note: SIZE WAS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Uterus		Dilatation	Mild
		Polyp Stromal	
Note: DILATATION TGLs = 4-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4846	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 705
	DOSE: 25 PPM 1-1	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROPSY,PROBABLY DUE TO UTERINE STROMAL POLYP.
Note: POLYP STROMAL TGLs = 3-11
Note: RED VAGINAL DISCHARGE,AS NOTED CLINICALLY AND AT

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PROBABLY ASSOCIATED WITH THE
Animal Note: MASSIVE UTERINE STROMAL POLYP.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4847	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 696
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: TGL#1-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4847	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 696
	DOSE: 25 PPM 1-1	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4848	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung	Mediastinum, Perivascular	Inflammation	Chronic Active, Moderate
	Artery, Mediastinum	Necrosis	Fibrinoid, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4848	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4849	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic Active, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Moderate
Note: DIVERTICULUM TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4850	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Urinary Bladder
Uterus			

MISSING

Esophagus	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Atypia Cellular	
	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 2-11]			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4850	**TRT#:** 11	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 25 PPM 1-1	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#2-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4851	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 587
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Thrombosis	
Clitoral Gland	Duct	Dilatation	Minimal
Heart	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: TGL#4-NCL-MEDIASTINAL L N IS MISSING.			
Note: LEUKEMIA MONUC TGLs = 3,5-5+7+11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4851	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 587
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4852	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Necrosis	Coagulative, Mild
Blood		Leukemia Mononuclear	
Clitoral Gland		Carcinoma	
	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Atypia Cellular	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4852	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-12]			
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4853	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 669
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			
AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland		
OBSERVATIONS			
Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4854	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Moderate
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 2-11]			
Ovary		Atrophy	Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4854	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4855	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4855	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4856	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland		Adenoma	
	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Moderate
Note: ADENOMA TGLs = 2-10			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4856	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
Note: CYST TGLs = 6-7			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Dilatation	Moderate
		Polyp Stromal	
Note: DILATATION TGLs = 5-10			
Note: POLYP STROMAL TGLs = 4-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4857	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLD TISSUE ON SLIDE #10.			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4858	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Clitoral Gland	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Atrophy	Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4858	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4859	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 603
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 1,2-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 4-7			
Spleen		Leukemia Mononuclear	
Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4859	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 603
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:PITUITARY CARCINOMA WITH
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4860	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
[Cataract TGLS = 4-11]			
Intestine Small	Duodenum	Inflammation	Chronic Active, Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4860	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
		Polyp Stromal	

Note: POLYP STROMAL TGLs = 2-10

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,
Animal Note: PROBABLE TERMINAL UREMIA.PITUITARY ADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4861	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
Harderian Gland		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Moderate
[Fibroadenoma TGLS = 2-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: TGL#2-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4861	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4862	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hematocyst	
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Minimal
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 1-11			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 2-7			
Skin			
Note: FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,IS MAMMARY GLD.			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4862	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

Note: DILATATION TGLs = 3-10
Note: POLYP STROMAL TGLs = 3-10

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MASSIVE AXILLARY
Animal Note: MAMMARY GLD FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4863	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 718
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Necrosis	Coagulative, Moderate
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-4			
Lung		Chordoma	Metastatic (Uncertain Primary Site)
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4863	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 718
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: YELLOW SKIN,NOTED CLINICALLY AND AT NECROPSY, IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-11]			
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4864	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 604
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Minimal
Kidney		Mixed Tumor Benign	
		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4864	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 604
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4865	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Kidney	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: INFARCTED,MASSIVE UTERINE STROMAL POLYP.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4866	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Minimal
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4867	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 372
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Kidney		Nephropathy	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary			
Note: ENGORGEMENT WITH BLOOD.			
Note: TGL#1-NCL-OVARIES CONSIDERED TO BE WNL HISTOPATHO-			
Note: LOGICALLY.RED COLOR,AS NOTED AT NECROPSY,IS DUE TO			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: HEMORRHAGE,WITH RESULTANT COMPRESSION
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA AND
Animal Note: OF HYPOTHALMUS AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4868	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Bone	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Marked
Brain		Compression	
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 1-11]			
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 3-1]			
Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4869	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-11]			
Ovary		Cyst	
[Cyst TGLS = 2-12]			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 6-7			
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Uterus		Dilatation	Moderate
		Hemorrhage	Marked
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4869	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 5-10
Note: HEMORRHAGE TGLs = 4-10
[Dilatation TGLS = 3-12]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4870	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 4-11]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Ovary		Atrophy	Moderate
		Cyst	
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4870	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#4-SKIN MASS,RIGHT POSTERIOR VENTRAL REGION, AS			
Note: NOTED AT NECROPSY,IS MAMMARY GLD FIBROADEMOA			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
		Inflammation	Chronic Active, Mild
		Polyp Stromal	
[Polyp Stromal TGLS = 3-12]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4871	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Pancreas	Salivary Glands	Spleen
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Compression	
		Hydrocephalus	Mild
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-11]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4871	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Skin		Alopecia	
[Alopecia TGLS = 1-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
[Inflammation TGLS = 7-13]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 5-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4872	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Clitoral Gland	Duct	Dilatation	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4872	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Polyp Stromal
Note: DIVERTICULUM TGLs = 2-11	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4873	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 637
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Small - Duodenum	Islets, Pancreatic	Kidney	Lymph Node
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Tooth
Trachea	Urinary Bladder		
MISSING			
Intestine Large - Cecum	Thymus		
AUTO PRECLUDES DIAG.			
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Glandular
Thyroid Gland			
OBSERVATIONS			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 3-12			
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4874	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4875	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 1-7			
Note: HYPERPLASIA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4876	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 497
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Islets, Pancreatic
Liver	Lung	Lymph Node	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Thymus	Tooth
Trachea	Uterus		

MISSING

Intestine Large - Colon

AUTO PRECLUDES DIAG.

Clitoral Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Urinary Bladder

OBSERVATIONS

Heart	Cardiomyopathy	Chronic, Mild
Kidney	Inflammation	Chronic Active, Moderate
Lymph Node		

Note: MANDIBULAR LYMPH NODE: AUTOLYTIC.

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PYELONEPHRITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4877	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 4-2			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Note: HYPERPLASIA TGLs = 1-11			
Ovary		Cyst	
[Cyst TGLS = 2-12]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: MAMMARY GLD HYPERPLASIA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4877	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4878	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Note: EXAMINATION.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-11]			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4878	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4879	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 461
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4880	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Clitoral Gland	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 2-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: TGL#2-SKIN MASS.LEFT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4880	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
Note: HYPERPLASIA TGLs = 3-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4881	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Minimal
Note: FIBROADENOMA TGLs = 1,2-11+12			
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Marked
Pituitary Gland	Pars Distalis	Cyst	
Skin			
Note: TGL#'S 1&1-SKIN MASSES,LEFT & RIGHT AXILLAS,AS NOTED AT			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4881	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4882	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4883	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 654
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: TGL#2-SKIN MASS,RIGHT VENTRAL ABDOMINAL REGION,IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4883	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 654
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA,
Animal Note: COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS.
Animal Note: PITUITARY ADENOMA WITH RESULTANT

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4884	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hematocyst	
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: HEMATOCYST TGLs = 10-7			
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 9-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4884	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Granulosa-Theca Tumor Malignant	
Note: CYST TGLs = 2,3-12+13			
Note: GRAN THECA MAL TGLs = 2-13			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-7			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 6-14			
[Fibrosis TGLS = 5-14]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
Note: HYPERPLASIA TGLs = 4-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4885	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4886	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 711
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Tooth	Trachea

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Thyroid Gland	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-12+13			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4886	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 711
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Leukemia Mononuclear
	Polyp Stromal
Note: POLYP STROMAL TGLs = 4-10	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4887	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Eye	Retina	Atrophy	Moderate
	Lens	Cataract	Moderate
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Tooth		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4888	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Minimal
Ear		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-11]			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 2-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4889	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULATR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 1,2-11+12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 4-7			
Note: CYST TGLs = 4-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: AS NOTED AT NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4889	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#'S 1&2-SKIN MASSES,LEFT & RIGHT INGUINAL REGIONS,			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4890	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Tooth	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 1-10]			
Pancreas	Acinus	Atrophy	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4890	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 732
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4891	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 671
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Eye	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Blood		Leukemia Mononuclear	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Mild
Eye			
Note: TGL#1-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2+3			
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4891	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 671
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Ovary		Leukemia Mononuclear	
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Dilatation	Moderate
		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 5-10			
Note: DILATATION TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4892	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-2+12			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4892	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LELUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4893	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-13]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 2-12			
Ovary		Cyst	
[Cyst TGLS = 3-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4893	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4894	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 665
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland	Urinary Bladder	

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Note: TGL#3-NCL-HEPATIC PIGMENT,AS NOTED AT NECROPSY,NOT			
Note: APPARENT HISTOPATHOLOGICALLY.			
Lymph Node			
Note: PATHOLOGICALLY.RED COLOR,NOTED AT NECROPSY,DUE TO			
Note: ENGORGEMENT WITH BLOOD.			
Note: TGL#1-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL HISTO-			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SPLENIC HEMANGIOSARCOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4895	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4+12			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-14			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Ovary		Cyst	
Note: CYST TGLs = 4,5-10+13			
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4895	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 8-7			
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
		Leiomyoma	
Note: HYPERPLASIA TGLs = 6-13			
[Hyperplasia TGLS = 7-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4896	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 3-7			
Spleen			
Note: HISTOPTHOLOGICALLY.			
Note: TGL#1-NCL-SPLEEN CONSIDERED TO BE WNL			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4896	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 0-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4897	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Moderate
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: ADENOCARC TGLs = 1-11			
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Skin			
Note: IS MAMMARY GLD FIBROADENOMA WITH A FOCAL AREA OF			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Note: DEVELOPING ADENOCARCINOMA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4897	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Uterus		Dilatation	Marked
		Hemorrhage	Marked
Note: DILATATION TGLs = 3-10			
[Dilatation TGLS = 3-10]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4898	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Mammary Gland	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 3-7			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Necrosis	Coagulative, Moderate
Lung		Inflammation	Chronic Active, Marked
		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Nose		Foreign Body	Moderate
Note: FOREIGN MATERIAL IS FOOD AND HAIR PARTICLES.			
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Note: ANGIECTASIS TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:SEVERE BRONCHOPNEUMONIA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4898	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 0-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MAL PHEOCHROMOCYTOMA WITH PULMONARY
Animal Note: POSSIBILY DUE TO ASPIRATION.
Animal Note: METASTASES.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4899	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY GLAND TISSUE ON SLIDE #5.			
Ovary		Cyst	
[Cyst TGLS = 3,4-11+12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 1-7			
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4899	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-1]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
		Polyp Stromal	
[Hyperplasia TGLS = 5-10]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4900	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 2-11			
Clitoral Gland		Inflammation	Chronic Active, Moderate
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-MEDIASTINAL LYMPH NODE CONSIDERED TO BE WNL			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 4-12]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4900	**TRT#:** 12	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 0-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#4-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT

Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4901	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Ovary		Cyst	
[Cyst TGLS = 1,2-10]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Vacuolization Cytoplasmic	Marked
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Minimal
Tooth		Caries	Marked
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-10]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4901	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4902	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
[Cyst TGLS = 2-7]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4902	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4903	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gl			
Note: DILATED CLITORAL GLAND DUCT.			
Note: ON THE SLIDE FOR THE SECOND GLAND.THE ONLY THING PRESENT			
Note: I CANNOT SUPPORT THE FINDING AS NOTED AT NECROPSY;			
Note: IS A LARGE AMOUNT OF SECRETORY PRODUCT.BASED ON THIS			
Note: HOWEVER, I BELIEVE THAT IT PROBABLY REPRESENTED A			
Note: TGL#2-NCL-ONE CLITORAL GLD IS CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.THERE IS NO CLITORAL GLD TISSUE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
Skin			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4903	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4904	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 501
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Bone	Clitoral Gland	Esophagus	Harderian Gland
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Thymus	Tooth	Trachea
Uterus			
AUTO PRECLUDES DIAG.			
Bone Marrow	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Urinary Bladder

OBSERVATIONS			
Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Mild
Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4905	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 651
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: YELLOW EYE,NOTED CLINICALLY,IS PROBABLY DUE TO			
Note: CATARACT TGLs = 1-11			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-12			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4905	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 651
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Inflammation	Chronic Active, Mild
Note: TGL#4-NCL-SMALL LESION INVOLVING CERVIX,AS NOTED AT			
Note: NECROPSY,NOT APPARENT HISTOPATHOLOGICALLY.IT PROB-			
Note: ABLY REPRESENTS PIECES OF INFLAMMED MESENTERIC FAT			
Note: ATTACHED TO CERVICAL SEROSA.			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4906	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Hydronephrosis	Moderate
		Nephropathy	Chronic, Moderate
Note: HYDRONEPHROSIS TGLs = 7-1			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: CYST TGLs = 6-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Urinary Bladder		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4906	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION TGLs = 5-6
Note: TGL#4-NCL-URINARY BLADDER WALL CONSIDERED TO BE WNL
Note: HISTOPATHOLOGICALLY.

Uterus — Sarcoma Stromal
[Sarcoma Stromal TGLS = 2,3-10+11+12]

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UTERINE STROMAL SARCOMA,
Animal Note: HYDRONEPHROSIS,AND CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4907	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 2-12]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4908	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 585
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Uterus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Moderate
Note: DILATATION TGLs = 2-10			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,3,5-2+7+11			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN LESION,LEFT INGUINAL AREA,AS NOTED AT			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4908	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 585
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROPSY,IS DILATED CLITORAL GLD DUCT	
Spleen	Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 6-12	
Urinary Bladder	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4909	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gl			
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Mild
Lung		Carcinoma	Metastatic (Thyroid Gland)
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 5-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4909	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Inflammation	Chronic Active, Moderate
Ovary		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#5-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: ADENOMA TGLs = 3-7			
Note: CARCINOMA TGLs = 2-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4910	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 677
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland		

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4911	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 712
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Peripheral Nerve

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-4]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Spinal Cord	White Matter	Degeneration	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4911	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 712
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4912	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 597
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Intestine Large - Colon

AUTO PRECLUDES DIAG.

Intestine Large - Cecum Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Marked
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4912	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 597
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
Uterus			
Note: TGL#4-NCL-PIGMENT,AS NOTED AT NECROPSY,PROBABLY DUE			
Note: TO ENGORGEMENT WITH BLOOD.			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4913	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 685
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Leukemia Mononuclear	
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4913	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 685
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Stomach	Glandular	Inflammation	Chronic Active, Marked
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4914	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 312
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Glandular	Thyroid Gland	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Blood		Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Eye	Retina	Atrophy	Moderate
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,5,6,7-2+12+13+15			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 8-10			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-14			
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Thymus		Leukemia Mononuclear	
Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4914	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 312
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 4-10

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4915	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 1-11]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4916	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 431
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Parathyroid Gland		Hyperplasia	Moderate
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4917	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 587
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7,8-2+5+7+12			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Moderate
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4917	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 587
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 4-13			
[Leukemia Mononuclear TGLS = 3-13]			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4918	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Moderate
Note: [ADENOCARC] TGLs = 2-12			
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Skin			
Note: TGL#2-SKIN MASS,RIGHT INGUINAL AREA,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD ADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4918	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4919	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 622
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 3-11			
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 4-10			
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 5-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4919	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 622
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#3-SKIN MASS,VENTRAL ABDOMEN,AS NOTED AT NECROPSY,
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4920	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-12]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-11			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4920	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4921	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 1-11			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4922	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Mild
[Inflammation TGLS = 2-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4923	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thyroid Gland
Tooth	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Marked
Kidney		Nephropathy	Chronic, Minimal
Liver			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-PIGMENT,AS NOTED AT NECROPSY,NOT APPARENT			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Atrophy	Marked
Note: ATROPHY TGLs = 1-1			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4-11]			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4923	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: PAPILLOMA OF THE TONGUE.
Animal Note: INABILITY TO EAT DUE TO SQUAMOUS
Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.POSSIBILY

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4924	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 683
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Small - Duodenum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Bone Marrow	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Nose	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-10			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4924	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 683
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Leukemia Mononuclear
Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-11]	
Thymus	Leukemia Mononuclear
Thyroid Gland	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4925	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Atypia Cellular	
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Moderate
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: ANOM HEPAT LOB TGLs = 1-11			
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4925	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4926	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4926	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4927	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Heart	Islets, Pancreatic	Pancreas
Salivary Glands	Thymus	Tooth	Trachea

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric	Stomach - Forestomach	Stomach - Glandular
Urinary Bladder			

OBSERVATIONS

Eye	Lens	Cataract	Marked
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
[Cataract TGLS = 1-14]			
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 2-11]			
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4927	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 5-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Skin	Subcut Tiss	Fibroma	
Note: TGL#3-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
[Fibroma TGLS = 3-12]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
Thyroid Gland	Follicular Cel	Adenoma	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4928	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Hyperplasia	Reticulum Cell, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4929	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Note: MAMMARY GLD TISSUE ON SLIDE #10.			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-11]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4930	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 2-14]			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-12			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Note: HYPERPLASIA TGLs = 3-11			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 4-7]			
Skin			
Note: TGL#3-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD CYSTIC HYPERPLASIA			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4930	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HISTOPATHOLOGICALLY.			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 5-13			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4931	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 665
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 2-7			
Note: CYST TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4931	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 665
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: YELLOW COLOR,NOTED AT NECROPSY,IS PROBABLY DUE TO	
Spleen	Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 3-12	
Thyroid Gland	Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4932	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 605
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum

OBSERVATIONS

Brain	Artery	Inflammation	Chronic Active, Moderate
	Artery	Necrosis	Fibrinoid, Mild
Clitoral Gl			
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATH0LOGIC			
Heart		Cardiomyopathy	Chronic, Minimal
Lymph Node			
Note: HISTOPATHOLOGICALLY.			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Note: TGL#1-NCL-MESENTERIC L N CONSIDERED TO BE WNL			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Artery	Inflammation	Chronic Active, Moderate
	Artery	Necrosis	Fibrinoid, Mild
Ovary		Cyst	
		Inflammation	Chronic Active, Mild
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	Artery	Inflammation	Chronic Active, Moderate
	Artery	Necrosis	Fibrinoid, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4932	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 605
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4933	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-15			
Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7,12-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4933	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4,10,11-5+12+13+14+16			
Mammary Gland		Hyperplasia	Cystic, Moderate
		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Ovary		Atrophy	Moderate
		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 9-10			
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Bilateral, C Cell	Adenoma	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
		Polyp Stromal	
Note: POLYP STROMAL TGLs = 8-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4934	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 637
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4934	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 637
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4935	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 2-7			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4936	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Marked
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 6-1]			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4936	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 741
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4937	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Harderian Gland	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Cecum	Intestine Large - Rectum

INSUFFICIENT TISSUE

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Myelofibrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukocytosis	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 2-4			
Lung		Leukocytosis	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: MAMMARY GLD TISSUE ALSO ON SLIDE #10. [Fibroadenoma TGLS = 1-12]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Marked
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 4-11			
Skin		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4937	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [SQUAM CEL CARC] TGLs = 3-8
Note: TGL#1-SKIN MASS,LEFT LATERAL ABDOMINAL REGION,AS NOTED
Note: AT NECROPSY,IS MAMMARY GLD FIBROADENOMA
Note: HISTOPATHOLOGICALLY.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4938	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Atrophy TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 3-13			
Ovary		Cyst	
Note: CYST TGLs = 2-12			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4938	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#3-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-10]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4939	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 574
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tooth	Trachea	Uterus

OBSERVATIONS

Intestine Small	Duodenum	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-6			
Kidney		Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 2-1]			
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Inflammation	Chronic Active, Moderate
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Urinary Bladder	Transit Epithe	Carcinoma	
Note: CARCINOMA TGLs = 3-6			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:TRANSITIONAL CELL CARCINOMA,
Animal Note: URINARY BLADDER,ULCERATIVE GASTRITIS,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4939	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 574
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CHRONIC NEPHRITIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4940	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Clitoral Gl			
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Heart		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Jejunum	Leiomyoma	
Note: LEIOMYOMA TGLs = 7-6			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-12			
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4940	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2,3-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Fibrosis	Moderate
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 5-7			
Skin			
Note: TGL#1-SKIN MASS,VENTRAL INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-11]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4941	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 738
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4942	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Marked
[Adenocarcinoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA, AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD ADENOCARCINOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus		Dilatation	Marked
Note: DILATATION TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4942	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4943	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Mesentery		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4943	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4944	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 698
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Eye
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Hyperplasia	Mild
Eye			
Note: CELL LEUKEMIA.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: TGL#4-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: NOTED CLINICALLY.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS PROB-			
Note: ABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Intestine Small	Duodenum	Inflammation	Chronic Active, Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4944	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 698
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 5-7]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Stomach	Glandular	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT
Animal Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.
Animal Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4945	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-13]			
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas		Ectopic Liver	
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-12			
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA, AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 3-1			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4945	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4946	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Pancreas	Acinus	Atrophy	Moderate
Note: PANCREATIC TISSUE ALSO ON SLIDE #7.			
Pituitary Gl			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-PITUITARY GLD CONSIDERED TO BE WNL			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
[Hyperplasia TGLS = 1-10]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4947	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 659
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum	Intestine Small - Jejunum
Thyroid Gland			

OBSERVATIONS

Brain		Meningioma Benign	
Note: [MENINGIOMA BGN] TGLs = 2-5			
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Pancreas	Acinus	Atrophy	Minimal
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4947	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 659
	DOSE: 83 PPM 3-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [LEUKEMIA MONUC] TGLs = 1-11

PRIMARY CAUSE OF DEATH -

Animal Note: LEUKEMIA.
Animal Note: CAUSE OF DEATH: MENINGIOMA, MONONUCLEAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4948	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Moderate
Heart	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 3-7			
Skin			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4948	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-1]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4949	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4949	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 83 PPM 3-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: AND HYDROCEPHALUS.
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4950	**TRT#:** 13	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 3-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lacrimal Gland	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Moderate
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4951	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Spleen		Fibrosarcoma	
		Leukemia Mononuclear	
Note: FIBROSARC TGLs = 4-12			
Note: LEUKEMIA MONUC TGLs = 3-11			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4951	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: MONONUCLELAR CELL LEUKEMIA.
Animal Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE
Animal Note: CAVITIES,AS NOTED CLINICALLY AND AT NECROPSY,
Animal Note: YELLOW COLOR INVOLVING THE SKIN,TISSUES AND BODY
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4952	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hematocyst	
	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11+12]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,VENTERAL POSTERIOR REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4952	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4953	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Stomach	Glandular	Inflammation	Chronic Active, Minimal
	Forestomach	Necrosis	Coagulative, Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4954	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4955	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Mild
Clitoral Gland		Carcinoma	
Note: [CARCINOMA] TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Necrosis	Coagulative, Moderate
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Spinal Cord	White Matter	Degeneration	Moderate
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4955	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-12			
[Inflammation TGLS = 2-12]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4956	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-7			
Note: CYST TGLs = 3-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
Note: HYPERPLASIA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4956	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4957	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6,7,9,10-2+11+12+13+17			
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-16			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4957	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 8-15			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-14			
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4958	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Hyperplasia	Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Ovary		Cyst	
[Cyst TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4959	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS ON HEAD,AS NOTED AT NECROPSY,			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4959	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 494
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4960	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 720
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Stomach - Forestomach	Tooth	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Marked
Note: DILATATION TGLs = 3-10			
Eye	Lens	Cataract	Moderate
		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-11			
Intestine Large	Colon	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE:MISSING.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4960	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 720
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
Stomach	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 6-14			
Urinary Bladder		Leukemia Mononuclear	
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4961	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 704
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Spleen	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Clitoral Gland	Intestine Small - Ileum	Skin

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Intest Large			
Note: TGL#5-NCL-CECUM CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
Mesentery		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-12]			
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA TGLs = 6-7			
Salivary Glands		Inflammation	Chronic Active, Marked
Spleen			
Note: TGL#4-SPLEEN CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Stomach	Glandular	Inflammation	Chronic Active, Minimal
	Forestomach	Necrosis	Coagulative, Marked
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4961	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 704
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina
Note: GLD FIBROADENOMA HISTOPATHOLOGICALLY.
Note: TGL#1-VAGINAL MASS,AS NOTED AT NECROPSY,IS MAMMARY

PRIMARY CAUSE OF DEATH -

Animal Note: MASSIVE MAMMARY GLD FIBROADENOMA,
Animal Note: SEVERE,CHRONIC-ACTIVE SIALOADENITIS.
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4962	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Note: NUCLEAR CELL LEUKEMIA.			
[Cataract TGLS = 2-11]			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Note: HISTOPATHOLOGICALLY.			
Note: TGL#8-RENAL CYST,AS NOTED AT NECROPSY,NOT APPARENT			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5,6-2+7+12			
Mammary Gland		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4962	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-13			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
Uterus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4963	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Spleen		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
Note: NECROSIS TGLs = 2-11			
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4963	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4964	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 2-12]			
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 1-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Moderate
Note: ADENOMA TGLs = 3-7			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4965	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 725
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Marked
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO			
Note: THE MONONUCLEAR CELL LEUKEMIA.			
Note: TGL#1-YELLOW COLOR,AS NOTED CLINICALLY AND AT			
Note: CATARACT TGLs = 2-11			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4965	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 725
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7,8-2+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Atrophy	Moderate
		Cyst	
		Cystadenoma	
		Leukemia Mononuclear	
Note: CYST TGLs = 5-10			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-7			
Note: ADENOMA TGLs = 3-7			
Skin			
Note: YELLOW SKIN,AS NOTED AT NECROPSY,IS PROBABLY DUE TO			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4966	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Eye	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4967	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Capsule	Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Chronic, Mild
	Perivascular	Inflammation	Chronic Active, Marked
	Artery	Necrosis	Fibrinoid, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4968	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2,3,4-2+7+11+12]			
Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Leukemia Mononuclear	
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 6-10]			
Pancreas		Leukemia Mononuclear	
Parathyroid Gland		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
Stomach	Glandular	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4968	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4969	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 590
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Harderian Gland	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum	Thyroid Gland

OBSERVATIONS

Brain		Compression	
Esophagus		Foreign Body	Marked
Note: FOREIGN MATERIAL IS FOOD.			
Note: TGL#1-ESOPHAGEAL RUPTURE,AS NOTED AT NECROPSY,WAS			
Note: NOT SEEN AT TRIM.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF CEREBELLUM.
Animal Note: CAUSE OF DEATH:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4970	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#4-ENLARGEMENT,AS NOTED AT NECROPSY,IS DUE TO			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 4-13			
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 2-12]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4970	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 3-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4971	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 687
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow	Femoral	Myelofibrosis	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGIC			
Eye			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Note: NUCLEAR CELL LEUKEMIA.			
Heart		Bacterium	
		Cardiomyopathy	Chronic, Mild
		Inflammation	Chronic Active, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-4+11			
Lung		Leukemia Mononuclear	
Lymph Node			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4971	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 687
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4972	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-11]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4973	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 706
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum

OBSERVATIONS

Bone Marrow	Femoral	Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4973	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 706
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4974	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Salivary Glands	Skin	Stomach - Forestomach	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Note: DILATATION TGLs = 7-10			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-13]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4+14]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenoma	
		Hyperplasia	Cystic, Moderate
Note: ADENOMA TGLs = 3-11			
Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4974	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-7]			
Skin			
Note: TGL#3-MASS,RIGHT AXILLARY REGION,AS NOTED AT NECROPSY,			
Note: IS MAMMARY GLD ADENOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 2-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4975	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Clitoral Gland	Duct	Dilatation	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 3-11			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 2-12			
Note: TGL#3-SKIN MASS,RIGHT VENTRAL ABDOMINAL REGION,AS			
Note: HISTOPATHOLOGICALLY.			
Note: NOTED AT NECROPSY,IS MAMMARY GLD FIBROADENOMA			
Spleen		Leukemia Mononuclear	
Uterus		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 4-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4975	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.
Animal Note: CONTRIBUTING FACTORS:LARGE MAMMARY GLD FIBRO-
Animal Note: ADENOMA;CUTANEOUS FIBROSARCOMA AND
Animal Note: PITUITARY GLD ADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4976	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4976	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4977	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-11			
Ovary		Cyst	
[Cyst TGLS = 1-12]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4978	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Brain		Inflammation	Chronic Active, Moderate
Clitoral Gland		Inflammation	Chronic Active, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Note: ADENOMA TGLs = 1-7			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked
Note: HYPERPLASIA TGLs = 2-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4979	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small	Islets, Pancreatic
Lymph Node	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
	Cortex	Hypertrophy	Focal, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung	Bronchiole, Epithelium	Hyperplasia	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal
		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4980	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 550
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Ileum	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Atypia Cellular	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Atrophy	Moderate
		Leukemia Mononuclear	
Note: TGL#2-LIVER NODULE,LEFT LATERAL LOBE,AS NOTED AT			
Note: NECROPSY,IS PART OF LEFT LATERAL LOBE. IT APPEARED			
Note: NODULAR BECAUSE IT WAS ATTACHED TO REMAINDER OF LOBE			
Note: BY A PORTION OF THE LOBE WHICH WAS ATROPHIED.			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4980	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 550
	DOSE: 83 PPM 10-3	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Leukemia Mononuclear
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4981	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
[Cyst TGLS = 2-10]			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4982	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Minimal
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
[Dilatation TGLS = 2-10]			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Hepatocyte	Hyperplasia	Marked
Note: [HYPERPLASIA] TGLs = 3-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4983	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 712
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Mammary Gland
Nose	Ovary	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Cyst	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-1			
Note: CYST TGLs = 2-1			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Pancreas	Acinus	Atrophy	Minimal
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Marked

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY;
Animal Note: PROBABLE TERMINAL UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4984	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland	Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Medulla	Infiltration Cellular	Lymphocyte, Mild
	Cortex	Necrosis	Coagulative, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
Note: ANGIECTASIS TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,VENTRAL POSTERIOR,AS NOTED AT NECROPSY,			
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Stomach	Glandular	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4984	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4985	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 725
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye			
Note: NECROPSY,IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: TGL#2-NCL-YELLOW COLOR,AS NOTED CLINICALLY AND AT			
Note: MONONUCLEAR CELL LEUKEMIA.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6,8-2+5+7+14			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4985	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 725
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-12			
Mesentery		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 3-7			
Skin			
Note: NUCLEAR CELL LEUKEMIA.			
Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONO-			
Note: THE YELLOW SKIN,NOTED BOTH CLINICALLY AND AT NECROPSY,			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-13			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4986	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 2-7			
Note: ANGIECTASIS TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Note: HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4986	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus		Dilatation	Marked
		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 3-10			
[Hemorrhage TGLS = 3-10]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4987	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
		Hydrocephalus	Mild
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-10			
Note: DILATATION TGLs = 3-10			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: TGL#4-NCL-RENAL LYMPH NODE CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Mammary Gland		Adenoma	
		Hyperplasia	Cystic, Marked
Note: HYPERPLASIA TGLs = 2-7			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4987	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin			
Note: HISTOPATHOLOGICALLY.			
Note: ECTATIC MAMMARY DUCT AND MAMMARY GLD HYPERPLASIA			
Note: TGL#2-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4988	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Cyst	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-1			
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Fungus	
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4988	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus [Polyp Stromal TGLS = 2-10]	Polyp Stromal
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4989	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1-11]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 2-7			
Skin			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY,IS			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4989	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4990	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
Note: 855			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4990	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4991	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 437
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Clitoral Gland	Skin

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Clitoral Gl			
Note: TGL#1-MASS INVOLVING CLITORAL GLD,AS NOTED AT NECROPSY,			
Note: HISTOPATHOLOGICALLY.			
Note: IS DIAGNOSED AS A MAL MIXED MAMMARY TUMOR			
Lung		Mixed Tumor Malignant	Metastatic (Mammary Gland)
Note: MIXD TUMOR MAL TGLs = 4,5-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: TGL#3-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Mammary Gland		Mixed Tumor Malignant	
[Mixed Tumor Malignant TGLS = 1-11]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-12]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4991	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 437
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: WITH PULMONARY METASTASES.
Animal Note: CAUSE OF MORBIDITY:MAL MIXED MAMMARY TUMOR

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4992	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 1-10]			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-1			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4992	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4993	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Clitoral Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Moderate
Note: DILATATION TGLs = 1-10			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Mesentery		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 3-11			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4993	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4994	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Salivary Glands

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: TGL#6-NCL-MANDIBULAR LYMPH NODE MISSING.			
Note: LEUKEMIA MONUC TGLs = 5-11			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4994	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 721
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: YELLOW SKIN,NOTED CLINICALLY,IS PROBABLY DUE TO			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal
		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
Vagina		Dilatation	Moderate
	Epithelium	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 3-10			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4995	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 558
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Skin	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,4,5,6,7-2+5+7+11+12+14			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4995	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 558
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-7			
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
		Polyp Stromal	
Note: LEUKEMIA MONUC TGLs = 3-10			
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4996	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 564
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Esophagus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-11			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7,8-2+5+7+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4996	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 564
	DOSE: 83 PPM 10-3	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-13]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4997	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 2-7			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4998	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Necrosis	Coagulative, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Ovary		Cyst	
[Cyst TGLS = 2-12]			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4999	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Cortex	Necrosis	Coagulative, Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Eye			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: LEUKEMIA MONUC TGLs = 2,3-2+12			
Mammary Gland		Hyperplasia	Cystic, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4999	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 4-11			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Note: ADENOMA TGLs = 1-7			
Skin			
Note: PROBABLY DUE TO JAUNDICE SECONDARY TO THE MONONUCLEAR			
Note: CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,IS			
Spleen		Fibrosarcoma	
		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1]			
Stomach	Glandular	Inflammation	Chronic Active, Marked
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5000	**TRT#:** 14	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 83 PPM 10-3	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Minimal
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5001	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 605
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	
		Hydrocephalus	Moderate
Note: FROM PITUITARY ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS IS DUE TO PRESSURE			
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
Note: FIBROADENOMA TGLs = 1-12			
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-11			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: TGL#1-SKIN MASS, INGUINAL REGION, AS NOTED AT NECROPSY,			
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5001	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 605
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA
Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5002	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
	Cortex	Hypertrophy	Mild
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Fungus	
		Inflammation	Chronic Active, Marked
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 3-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5002	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Uterus		Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5003	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
Brain		Hydrocephalus	Moderate
Intestine Small	Duodenum	Hyperplasia	Glandular, Moderate
Note: [HYPERPLASIA] TGLs = 5-6			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Cyst	
Note: CYST TGLs = 6-6			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 2-7+11			
Pancreas			
Note: TGL#6-PANCREATIC NODULE,NOTED AT TRIM,IS CYSTIC			
Note: PANCREATIC LYMPH NODE HISTOPATHOLOGICALLY.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5003	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#2-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLD ADENOCARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Mild
Note: ADENOMA TGLs = 3,4-7			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5004	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Moderate
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 2-10			
Eye	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5004	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 677
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	
Note: STROMAL POLYP WAS PARTIALLY INFARCTED.			
[Polyp Stromal TGLS = 3,4-12]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;
Animal Note: OF HYPOTHALMUS AND HYDROCEPHALUS;UTERINE
Animal Note: POLYP.
Animal Note: PITUITARY ADEINOMA WITH RESULTANT COMPRESSION

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5005	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 547
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large	Intestine Small
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye			
Note: YELLOW COLOR,NOTED CLINICALLY,IS PROBABLY DUE TO			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-2+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose		Inflammation	Chronic Active, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-11			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5005	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 547
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: JAUNDICE SECONDARY TO THE MONONUCLEAR
Animal Note: CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY,IS PROBABLY DUE TO

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5006	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 666
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Heart
Intestine Large	Intestine Small	Islets, Pancreatic	Nose
Salivary Glands	Skin	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,3,4-5+6+7+11+12		
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-7		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-13		
Stomach	Forestomach	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5006	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 666
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5007	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 573
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Islets, Pancreatic	Pancreas	Thyroid Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-ADRENAL GLDS DID NOT APPEAR TO BE ENLARGED			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung	Mediastinum	Hemorrhage	Marked
	Artery, Mediastinum	Inflammation	Chronic Active, Marked
	Artery, Mediastinum	Necrosis	Fibrinoid, Moderate
Note: HEMORRHAGE TGLs = 3-2			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:UNDETERMINED.SUSPECT RUPTURE OF LG
Animal Note: MEDIASTINAL VESSEL WITH ENSUING HEMORRHAGE.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5008	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Heart	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Brain		Compression	
		Hydrocephalus	Moderate
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5008	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5009	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Harderian Gl			
Note: IS ABSCESSED UPPER MOLAR HISTOPATHOLOGICALLY.			
Note: TGL#1-MASS,RIGHT HARDERIAN GLD,AS NOTED AT NECROPSY,			
Kidney		Nephropathy	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5009	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Tooth		Inflammation	Chronic Active, Marked

Note: ABSCESSED TOOTH RESPONSIBLE FOR THE PROLAPSED EYEBALL
Note: NOTED CLINICALLY.
Note: INFLAMMATION TGLs = 1-8

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:UNDETERMINED.MAY HAVE BEEN
Animal Note: ASSOCIATED WITH ABSCESSED UPPER MOLAR.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5010	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 698
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 1-7			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY CARCINOMA
Animal Note: WITH METASTASES TO CEREBELLUM AND CEREBRUM.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5011	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 628
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 1-1			
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5011	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 628
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5012	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 621
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Blood		Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-11]			
Harderian Gland		Leukemia Mononuclear	
Heart		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5012	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 621
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Inflammation	Chronic Active, Moderate
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5013	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-12]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5014	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Tooth	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Hemorrhage	Moderate
Note: CLINICALLY.IT IS PROBABLY SECONDARY TO THE MONO-			
Note: NUCLEAR CELL LEUKEMIA.			
Note: HEMORRHAGE ACCOUNTS FOR THE RED NASAL DISCHARGE NOTED			
Ovary		Cyst	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5014	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 4-10			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5015	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 684
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Skin			
Note: YELLOW COLOR,NOTED CLINICALLY,DUE TO JAUNDICE SECONDARY			
Note: TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5015	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 684
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5016	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[Fibroadenoma TGLS = 2-11]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,LEFT AXILLARY REGION,AS NOTED AT			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5016	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]	
Uterus	Polyp Stromal
Note: POLYP STROMAL TGLs = 4-10	
PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5017	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 2-12]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5018	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 660
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: TGL#1-YELLOW COLOR,RIGHT EYE,NOTED CLINICALLY AND AT
Note: HISTOPATHOLOGICALLY.
Note: CATARACT TGLs = 1,2-12
Note: MONONUCLEAR CELL LEUKEMIA.THIS IS NOT DEMONSTRABLE
Note: NECROPSY,PROBABLY DUE TO JAUNDICE SECONDARY TO THE

Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose			

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE NOTED
Note: BOTH CLINICALLY AND AT NECROPSY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5018	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 660
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5019	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Carcinoma	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: CLINICALLY AND AT NECROPSY.			
Ovary		Cyst	
Note: CYST TGLs = 4-10			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5019	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 1,2-7			

PRIMARY CAUSE OF DEATH -

Animal Note: SEVERE,CHRONIC NEPHROPATHY AND THYROID
Animal Note: GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5020	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Note: DILATATION TGLs = 3-10			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 5-3			
[Inflammation TGLS = 5-3]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Ovary		Cyst	
Note: CYST TGLs = 4-10			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Skin			
Note: TGL#1-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY,IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5020	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5021	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-7			
Note: TGL#4-ONLY ONE ADRENAL WAS INVOLVED WITH LESION. THE			
Note: OTHER GLD WAS ONLY ENGORGED WITH BLOOD.			
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Liver		Degeneration	Cystic, Marked
Note: DEGEN TGLs = 5-11			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-NCL-SPLEEN CONSIDERED TO BE WNL			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 6-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5021	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.
Animal Note: PROBABLE UREMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5022	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Atypia Cellular	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 4-4			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2,3-10			
Skin			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT HEAD REGION,AS NOTED AT NECROPSY,			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5022	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 657
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: HEPATIC NECROSIS.
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA;
Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5023	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Thymus		Cyst	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5024	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Eye
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Skin	Tooth	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye			
Note: TGL#8-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: YELLOW COLOR,NOTED AT NECROPSY,PROBABLY DUE TO JAUNDICE			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA. THIS IS NOT			
Note: DEMONSTRABLE HISTOPATHOLOGICALLY.			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 7-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 2,3-2+5+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5024	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Ovary		Cyst	
		Leukemia Mononuclear	
Note: [CYST] TGLs = 4,5-10			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
		Ultimobranchial Cyst	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
		Polyp Stromal	
Note: [POLYP STROMAL] TGLs = 6-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5025	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 613
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Marked
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Clitoral Gland	Duct	Dilatation	Moderate
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Moderate
Note: ADENOCARC TGLs = 2-11			
Nose			
Note: NOTED CLINICALLY AND AT NECROPSY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5025	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 613
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: MAMMARY GLD ADENOCARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,RIGHT AXILLA,AS NOTED AT NECROPSY, IS			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
Vagina		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 4-10			

PRIMARY CAUSE OF DEATH -

Animal Note: COMPRESSION OF HYPOTHALMUS AND
Animal Note: PITUITARY GLD ADENOMA WITH RESULTANT
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5026	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
		Granulosa-Theca Tumor Benign	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-7			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5027	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
[Cataract TGLS = 1-11]			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5027	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5028	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 570
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Islets, Pancreatic	Kidney	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Colon	Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Jejunum

OBSERVATIONS

Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
Liver		Leukocytosis	
		Necrosis	Coagulative, Moderate
Lung		Leukocytosis	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:HEPATIC NECROSIS.
Animal Note: POSSIBLE SEPTICEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5029	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Blood		Leukemia Mononuclear	
Ear		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 2-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 4-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5030	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Skin

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Carcinoma	Metastatic (Pituitary Gland)
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-12			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Cyst	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-1]			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY TISSUE ADJACENT TO CLITORAL GLDS ON SLIDE #10.			
Mesentery		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-6+11+13			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5030	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary			
Note: ONLY ONE OVARY AVAILABLE FOR HISTOPATHOLOGICAL EXAM.			
Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Distalis	Cyst	
Note: CARCINOMA TGLs = 5-7			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Adenoma	
	C Cell	Carcinoma	
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 4-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5031	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Tooth	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Minimal
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
Note: PITUITARY ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS IS DUE TO PRESSURE FROM			
Clitoral Gland	Duct	Dilatation	Moderate
Eye			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5031	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROADENOMA TGLs = 1-11			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin			
Note: TGL#1-SKIN MASS,LEFT AXILLA,AS NOTED AT NECROPSY, IS			
Note: MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Note: ADENOMA TGLs = 3-7			
Uterus	Cervix	Diverticulum	Moderate
	Cervix	Inflammation	Suppurative, Moderate
Note: DIVERTICULUM TGLs = 4-12			

PRIMARY CAUSE OF DEATH -

Animal Note: PITUITARY ADENOMA WITH RESULTANT
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;
Animal Note: HYDROCEPHALUS.
Animal Note: COMPRESSION OF HYPOTHALMUS AND

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5032	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 717
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node	Nose
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukocytosis	
		Necrosis	Coagulative, Mild
Lung		Leukocytosis	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Cyst	
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5032	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 717
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: UTERINE STROMAL POLYP.
Animal Note: POSSIBLE SEPTICEMIA SECONDARY TO
Animal Note: CAUSE OF DEATH:UNDETERMINED.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5033	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 690
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
		Leukemia Mononuclear	
Note: CATARACT TGLs = 1-12			
Harderian Gland		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4,5-2+6+7			
Mammary Gland		Hyperplasia	Cystic, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5033	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 690
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-11			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5034	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland	Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#4-NCL-MEDIASTINAL L N CONSIDERED TO BE WNL			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 1,2-11+12]			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: [ADENOMA] TGLs = 3-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#7S 1&2-SKIN MASSES,RIGHT & LEFT AXILLA,AS NOTED AT			
Note: NECROPSY,ARE MAMMARY GLD FIBROADENOMAS			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5034	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5035	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-1]			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung			
Note: LUNGS WERE NOT INFLATED AT NECROPSY.			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Bilateral, C Cell	Adenoma	
	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5035	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 4-7			
Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Moderate
Note: DIVERTICULUM TGLs = 2-11			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5036	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 1-11			
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT LATERAL THORAX,AS NOTED AT			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5036	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MASSIVE MAMMARY GLD
Animal Note: FIBROADENOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5037	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Clitoral Gland	Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Marked
Note: [ADENOMA] TGLs = 2,3-7			
Note: ADENOCARC TGLs = 2,3-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5037	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-10]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5038	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
Note: HYPERPLASIA TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Skin			
Note: IS HYPERPLASTIC CLITORAL GLD HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL AREA,AS NOTED AT NECROPSY,			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5039	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL			
Mammary Gland		Hyperplasia	Cystic, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5040	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 588
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Bone Marrow Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Moderate
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CLINICALLY AND AT NECROPSY.			
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 3-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5+7			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY TISSUE ADJACENT TO CLITORAL GLD ON SLIDE #10.			
Nose		Foreign Body	Moderate
		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5040	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 588
	DOSE: 250 PPM 0-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FOREIGN MATERIAL IS FOOD PARTICLES.			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Note: [INFLAMMATION] TGLs = 5-6			
Thyroid Gland	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: INHALATION PNEUMONIA.
Animal Note: ALL TISSUES EXAMINED WERE MILDLY TO MODERATELY
Animal Note: AUTOLYZED.
Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5041	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 487
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 2-4			
Note: INFLAMMATION TGLs = 2-4			
Lung			
Note: TGL#3-NCL-LUNGS CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Note: RED/MOTTLED COLOR,AS NOTED AT NECROPSY,DUE TO			
Note: ENGORGEMENT OF PULMONARY VESSELS WITH BLOOD.			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5041	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 487
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS
Animal Note: AND HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5042	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 676
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Note: DILATATION TGLs = 2-10			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Note: ANOM HEPAT LOB TGLs = 5,6-11			
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary			
Note: TGL#4-NCL-OVARIAN CYST,LEFT OVARY,AS NOTED AT			
Note: NECROPSY,NOT APPARENT HISTOPATHOLOGICALLY.			
Note: NECROPSY,NOT SEEN HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-OVARIAN MASS,RIGHT OVARY,AS NOTED AT			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 7-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5042	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 676
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Note: ADENOCARC TGLs = 1-12			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;
Animal Note: FOLLICULAR CELL ADENOCARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5043	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 734
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Eye	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	
		Hydrocephalus	Mild
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY CARCINOMA.			
Eye			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Nephropathy	Chronic, Moderate
Liver		Vacuolization Cytoplasmic	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5043	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 734
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1-7			
Stomach	Forestomach	Inflammation	Chronic Active, Moderate
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
Tongue		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 2-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY CARCINOMA WITH
Animal Note: EXTENSION INTO BRAIN AND RESULTANT
Animal Note: COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5044	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 2-1]			
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: [ADENOMA] TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5045	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-11			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 3-12			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary		Cyst	
Note: CYST TGLs = 5-10			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-7			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5045	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 4-7			
Uterus		Dilatation	Marked
Note: DILATATION TGLs = 6-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5046	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Thymus	Thyroid Gland
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Heart	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Minimal
Liver		Necrosis	Coagulative, Moderate
[Necrosis TGLS = 1-4]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Note: MAMMARY TISSUE ADJACENT TO CLITORAL GLD ON SLIDE #10.			
Nose			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Stomach	Forestomach	Inflammation	Chronic Active, Mild
	Glandular	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:HEPATIC NECROSIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5047	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Clitoral Gl			
Note: EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHOLOGICAL			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-12+13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Parathyroid Gland		Hyperplasia	Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5047	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-11

Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5048	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 0-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5049	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY AND AT NECROPSY.			
Note: CATARACT TGLs = 1-13			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukocytosis	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 2-11			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 3-7			
Skin	Subcut Tiss	Fibrosarcoma	
Note: HISTOPATHOLOGICALLY.			
Note: TGL#2-A PROTION OF THE SKIN MASS,LEFT INGUINAL REGION,			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5049	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 726
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: AS NOTED AT NECROPSY,IS MAMMARY GLD FIBROADENOMA
Note: FIBROSARC TGLs = 2-12

Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:CUTANEOUS FIBROSARCOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5050	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 601
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Trachea
Uterus			

MISSING

Thymus	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Eye		Hemorrhage	Marked
Note: HEMORRHAGE TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5050	**TRT#:** 15	**SEX:** Female	**DAY ON TEST:** 601
	DOSE: 250 PPM 0-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
Note: ONLY ONE THYROID GLD AVAILABLE FOR HISTOPATHOLOGICAL			
Note: EXAMINATION.			
Tooth		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: YELLOW COLOR,NOTED CLINICALLY AND AT NECROPSY,
Animal Note: IS PROBABLY DUE TO JAUNDICE SECONDARY TO THE
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5051	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-11			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-1			
Liver		Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 4,5-12			
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
	Lumbar	Inflammation	Chronic Active, Marked
Note: HYPERPLASIA TGLs = 2-7			
Note: INFLAMMATION TGLs = 7-13			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Nervosa	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5051	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 694
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CHRONIC NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:CLITORAL GLD ADENOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5052	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 573
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Minimal
Eye			
Note: RATS NORMALLY HAVE RED TEARS TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose			
Note: CONTENT. THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PROPHYRIN			
Note: NOTED CLINICALLY.			
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5052	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 573
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Intermed	Cyst	
		Leukemia Mononuclear	
Skin			
Note: YELLOW SKIN,NOTED CLINICALLY PROBABLY DUE TO JAUNDICE,			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild
		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5053	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 676
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Clitoral Gland	Duct	Dilatation	Mild
Harderian Gland		Inflammation	Chronic Active, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 3-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5053	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 676
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: PITUITARY ADENOMA WITH RESULTANT COMPRESSION OF
Animal Note: HYPOTHALMUS AND HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5054	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Minimal
Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Marked
Lymph Node			
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Skin			
Note: ZYMBALS GLAND CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS RIGHT FACE,AS NOTED AT NECROPSY, IS			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5054	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1-11

PRIMARY CAUSE OF DEATH -

Animal Note: CHRONIC ACTIVE PNEUMONIA.
Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5055	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 576
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Eye			
Note: TGL#2-NCL-EYES CONSIDERED TO BE WNL HISTOPATHOLOGICALLY.			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Pituitary Gland	Pars Distalis	Carcinoma	
Note: CARCINOMA TGLs = 3-7			
Skin			
Note: TGL#1-SKIN MASS,VENTRAL THORACIC REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5055	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 576
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: HYDROCEPHALUS.
Animal Note: MARKED COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF DEATH:PITUITARY CARCINOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5056	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Clitoral Gland	Duct	Dilatation	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Nose		Inflammation	Chronic Active, Mild
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5057	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 538
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland	Duct	Dilatation	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY GLD ADENOMA
Animal Note: WITH RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5058	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tooth	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: CATARACT TGLs = 7-11			
Note: ATROPHY TGLs = 7-11			
Intestine Large	Cecum	Inflammation	Chronic Active, Marked
Kidney		Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 3,4,5-1			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, C Cell	Adenoma	
	Bilateral, Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 1,2-7			
Urinary Bladder	Transit Epithe	Hyperplasia	Marked
Note: TGL#6-NCL-FOREIGN BODY,AS NOTED AT NECROPSY,			
Note: INADVERTENTLY PLACE IN DECAL AND WAS LOST.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5058	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: IT MOST LIKELY WAS A BLADDER CALCULUS.

Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:COMPLICATIONS ARISING FROM CHRONIC
Animal Note: PYELONEPHRITIS AND UROLITHIASIS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5059	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 598
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-1]			
Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 2-11]			
Lung		Inflammation	Chronic Active, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
Stomach	Forestomach	Inflammation	Chronic Active, Marked
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 3-7+11			

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA,PNEUMONIA,GASTRITIS, AND CHRONIC
Animal Note: NEPHROPATHY.
Animal Note: CAUSE OF MORBIDITY:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5060	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Compression	
		Hydrocephalus	Moderate
Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 3-1]			
Liver		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 1-11			
Nose			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Skin			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5060	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#1-SKIN MASS,RIGHT VENTRAL REGION,AS NOTED AT NECROPSY,
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma
Note: ADENOCARC TGLs = 4-7		

PRIMARY CAUSE OF DEATH -

Animal Note: ADENOCARCINOMA, AND CHRONIC NEPHROPATHY.
Animal Note: HYDROCEPHALUS,THYROID GLD FOLLICULAR CELL
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5061	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 4-11			
Ovary		Cyst	
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Atypia Cellular	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL#4-SKIN MASS,RIGHT LATERAL ABDOMEN,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5061	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 740
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC TGLs = 1-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5062	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 4-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-1			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5062	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Cervix	Diverticulum	Marked
	Cervix	Inflammation	Suppurative, Moderate
Note: DIVERTICULUM TGLs = 1-10			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5063	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 743
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Atypia Cellular	
	Pars Distalis	Cyst	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5064	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 684
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland	Duct	Dilatation	Mild
Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE:MISSING.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland		Leukemia Mononuclear	
Skin			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5064	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 684
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: YELLOW SKIN,AS NOTED CLINICALLY,PROBABLY DUE TO			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5065	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 462
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Eye	Harderian Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Kidney		Nephropathy	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: TGL#2-NCL-RED COLOR,NOTED AT NECROPSY,DUE TO			
Note: ENGORGEMENT WITH BLOOD.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: HYDROCEPHALUS.
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5066	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
Note: CYST TGLs = 1-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 3-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5067	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 548
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Skin	Tooth	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Marked
Note: ADENOMA TGLs = 1-10+12			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 6-1			
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2+3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-2+11			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5067	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 548
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Skeletal Muscle		Leukemia Mononuclear	
Skin			
Note: YELLOW COLOR,NOTED CLINICALLY,IS PROBABLY DUE TO			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Moderate
		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5068	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 565
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL#1-SKIN MASS,RIGHT SIDE OF FACE,AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-11			

PRIMARY CAUSE OF DEATH -

Animal Note: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5068	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 565
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5069	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Moderate
Clitoral Gland		Inflammation	Chronic Active, Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
		Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 3-4]			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 6-10]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5069	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 744
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Bilateral, Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 1-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5070	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 564
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Medulla	Pheochromocytoma Benign	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,5-2+11			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Inflammation	Chronic Active, Minimal
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-12			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5070	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 564
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: YELLOW COLOR,NOTED CLINICALLY,IS PROBABLY DUE
Animal Note: CELL LEUKEMIA.
Animal Note: TO JAUNDICE SECONDARY TO THE MONONUCLEAR

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5071	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 614
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Tooth
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Eye			
Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Note: YELLOW COLOR,NOTED CLINICALLY,PROBABLY DUE TO			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,4-2+11+12			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5071	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 614
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-13]			
Stomach	Forestomach	Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	Multiple
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5072	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 606
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1]			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Adenoma	
	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5072	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 606
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC TGLs = 2-7

PRIMARY CAUSE OF DEATH -

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5073	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

MISSING

Clitoral Gland

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Necrosis	Coagulative, Mild
Lung		Inflammation	Chronic Active, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 4-11			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Moderate
Note: CYST TGLs = 5-7			
Note: HYPERPLASIA TGLs = 5-7			
Skin			
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#4-SKIN MASS,INGUINAL REGION,AS NOTED AT NECROPSY,			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus		Sarcoma Stromal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5073	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 592
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SARC STROMAL TGLs = 1,2,3-10+12
Vagina
Note: NECROPSY,IS FELT TO BE THE UTERINE STROMAL SARCOMA
Note: WHICH HAD PROLAPSED THROUGH THE VAGINAL CANAL.
Note: TGL#'S 1&2-VAGINAL MASS AND PROLAPSE,AS NOTED AT

PRIMARY CAUSE OF DEATH -

Animal Note: MASSIVE MAMMARY GLD FIBROADENOMA.
Animal Note: CAUSE OF MORBIDITY:UTERINE STROMAL SARCOMA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5074	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 637
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-4+11			
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	
Note: STROMAL POLYP WAS INFARCTED.			
Note: POLYP STROMAL TGLs = 4-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5074	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 637
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

Animal Note: CAUSE OF DEATH: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5075	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 614
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Heart	Atrium	Thrombosis	
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-2+5+7			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5075	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 614
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY: MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5076	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	
Note: PITUITARY ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5077	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 715
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-11			
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Ovary		Cyst	
Note: CYST TGLs = 2-10			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin			
Note: TGL#1-SKIN MASS,VENTRAL ABDOMEN,AS NOTED AT NECROPSY,			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5077	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 715
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.

Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked

Note: ADENOCARC TGLs = 3-7

PRIMARY CAUSE OF DEATH -

Animal Note: MASSIVE MAMMARY GLD FIBROADENOMA.
Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMA;
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5078	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node	Nose	Ovary	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Bone	Cranium	Fibrous Osteodystrophy	
	Femur	Fibrous Osteodystrophy	
Brain		Carcinoma	Metastatic (Pituitary Gland)
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
Note: ATROPHY TGLs = 1,2-11			
Note: CATARACT TGLs = 1,2-11			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-1]			
Liver		Inflammation	Chronic, Mild
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Distalis	Cyst	
Note: CARCINOMA TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5078	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 5-7			

PRIMARY CAUSE OF DEATH -

Animal Note: THYROID GLD FOLLICULAR CELL ADENOCARCINOMAS;
Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY;
Animal Note: PITUITARY GLAND CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5079	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 544
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-2+5+7			
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Mild
Note: ADENOCARC TGLs = 1-11			
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 5-10			
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5079	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 544
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 7-7			
Skin			
Note: TGL#1-SKIN MASS,RIGHT VENTRAL THORACIC REGION,AS NOTED			
Note: HISTOPATHOLOGICALLY.			
Note: AT NECROPSY,IS MAMMARY GLD ADENOCARCINOMA			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: MAMMARY GLAND ADENOCARCINOMA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA;

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5080	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node	Pancreas	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
Note: FIBROADENOMA TGLs = 1-11			
Nose		Fungus	
		Inflammation	Chronic Active, Moderate
Ovary		Cyst	
Note: CYST TGLs = 5-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Skin			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,LEFT INGUINAL REGION,AS NOTED AT			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5080	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 745
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 2-7			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-12			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5081	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Clitoral Gland	Duct	Dilatation	Marked
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Lung		Fungus	
		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: INFLAMMATION TGLs = 2,6-3+12			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Ovary			
Note: TGL#4-NCL-CYSTIC OVARY NOT APPARENT HISTOPATHOLOGICALLY.			
Pancreas	Acinus	Atrophy	Moderate
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5081	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 642
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-11

Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5082	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 600
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
Note: NOTED CLINICALLY.			
Note: ATROPHY TGLs = 2-12			
Note: CATARACT TGLs = 2-12			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Cyst	
		Inflammation	Chronic, Mild
[Inflammation TGLS = 4-4]			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 5-7			
Note: CYST TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5082	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 600
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Spleen			
Note: APPEARING PANCREATIC TISSUE HISTOPATHOLOGICALLY.			
Note: TGL#3-NCL-ADHESION,NOTED AT NECROPSY,IS NORMAL			
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA,HEMORRHAGIC
Animal Note: AND HYDROCEPHALUS.
Animal Note: CYST AND RESULTANT COMPRESSION OF HYPOTHALMUS,

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5083	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 741
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Tooth
Trachea	Urinary Bladder		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Mild
		Leukemia Mononuclear	
Note: PITUITARY ADENOMA AND CYST.			
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5083	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 741
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: [HYPERPLASIA] TGLs = 1-7			
Note: CYST TGLs = 1-7			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
Stomach	Forestomach	Inflammation	Chronic Active, Marked
	Glandular	Inflammation	Chronic Active, Marked
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 2-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5084	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 689
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
Mammary Gland		Hyperplasia	Cystic, Moderate
Ovary		Cyst	
		Leukemia Mononuclear	
[Cyst TGLS = 5-10]			
Pancreas	Acinus	Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5084	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 689
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-11]		
Thyroid Gland	Follicular Cel	Adenocarcinoma
[Adenocarcinoma TGLS = 1-12]		
PRIMARY CAUSE OF DEATH	-	

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5085	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 607
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	
		Hydrocephalus	Moderate
Note: COMPRESSION OF HYPOTHALMUS IS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Eye			
Note: HISTOPATHOLOGICALLY ACCOUNTS FOR THE OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Note: SUPPURATIVE INFLAMMATION OF NASAL LACRIMAL DUCT SEEN			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Inflammation	Chronic, Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
Note: SUPPURATIVE INFLAMMATION OF THE NASAL LACRINAL DUCT			
Note: SEEN HISTOPATHOLOGICALLY ACCOUNTS FOR THE NASAL			
Note: DISCHARGE NOTED CLINICALLY.			
Ovary			
Note: EXAMINATION.THE OTHER ONE WAS LOST DURING SECTIONING.			
Note: ONLY ONE OVARY AVAILABLE FOR HISTOPATHOLOGICAL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5085	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 607
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: HYDROCEPHALUS.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5086	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Harderian Gland	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic Active, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4-4+12			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: MANDIBULAR LYMPH NODE:NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Atrophy	Moderate
		Cyst	
Note: CYST TGLs = 5-10			
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5086	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5087	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Tooth	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Moderate
Note: PITUITARY ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Clitoral Gland	Duct	Dilatation	Marked
		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 2-10			
Note: DILATATION TGLs = 2-10			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5087	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 707
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Cystic, Marked
Nose			
Note: NOTED CLINICALLY.			
Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7			
Skin			
Note: YELLOW SKIN,NOTED CLINICALLY,PROBABLY DUE TO JAUNDICE			
Note: SECONDARY TO THE MONONUCLEAR CELL LEUKEMIA.			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Stomach	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5088	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 469
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Eye	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tooth
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hypertrophy	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC TGLs = 7-1			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2,3,5-2+5+7+11+12			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5088	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 469
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5089	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

MISSING

Heart

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
Brain		Compression	
		Hydrocephalus	Moderate
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: NOTED CLINICALLY.			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-7			
Stomach	Forestomach	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5089	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 679
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS.
Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5090	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 624
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node	Nose
Pancreas	Skin	Spleen	Stomach - Glandular
Tooth	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-1]			
Liver		Vacuolization Cytoplasmic	Moderate
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
[Cyst TGLS = 3-10]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-7]			
Salivary Glands		Granuloma	Moderate
Stomach	Forestomach	Inflammation	Chronic Active, Mild
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:SEVERE,CHRONIC NEPHROPATHY.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5091	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Skin	Stomach - Forestomach
Stomach - Glandular	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC TGLs = 6-1			
Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,4,7,9-6+12+13+14			
Mammary Gland		Hyperplasia	Cystic, Moderate
		Leukemia Mononuclear	
Nose		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5091	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 3-10			
Pancreas	Acinus	Atrophy	Mild
		Leukemia Mononuclear	
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-7			
Note: HYPERPLASIA TGLs = 10-7			
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-4			
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5092	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 565
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Bone
Bone Marrow	Brain	Clitoral Gland	Ear
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney		Cyst	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Note: CLEAR CL FOCUS TGLs = 4-13			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-7			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
Note: FIBROADENOMA TGLs = 3-12			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: TGL#1-SKIN MASS,RIGHT FACE & NECK,AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Note: TGL#3-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Note: NECROPSY,IS MAMMARY GLD FIBROADENOMA			
Thyroid Gland	Bilateral, Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5092	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 565
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland [Carcinoma TGLS = 1-11]	Carcinoma

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:ZYMBALS GLD CARCINOMA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5093	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 1-1]			
Liver		Necrosis	Coagulative, Mild
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose		Fungus	
		Inflammation	Chronic Active, Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Stomach	Forestomach	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 5-11]			
Thyroid Gland	Bilateral, Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOMA TGLs = 3-7			
Uterus	Endometrium	Hyperplasia	Cystic, Glandular, Moderate
Note: HYPERPLASIA TGLs = 2-10			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5093	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 746
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5094	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood		Leukemia Mononuclear	
Bone Marrow	Femoral	Leukemia Mononuclear	
Heart		Inflammation	Chronic Active, Moderate
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3-4			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2			
Mammary Gland		Hyperplasia	Cystic, Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: YELLOW COLOR,NOTED AT NECROPSY,WAS PROBABLY

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5094	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 620
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: LEUKEMIA.
Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.
Animal Note: JAUNDICE SECONDARY TO THE MONONUCLEAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5095	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 638
	DOSE: 250 PPM 10-10	**DISP:** Natural Death	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node	Nose	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-2+3			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Mild
Ovary		Cyst	
Note: CYST TGLs = 1-10			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: ADENOCARC TGLs = 2-7			
Trachea		Adenocarcinoma	Metastatic (Thyroid Gland)

PRIMARY CAUSE OF DEATH -

Animal Note: CONTRIBUTING FACTOR:INHALATION PNEUMONIA.
Animal Note: ADENOCARCINOMA WITH INVASION OF TRACHEA.
Animal Note: CAUSE OF DEATH:THYROID GLAND FOLLICULAR CELL

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5096	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked

Note: HISTOPATHOLOGICALLY.
Note: NOTED CLINICALLY.
Note: TGL#4-NCL-LEFT EYE CONSIDERED TO BE WNL
Note: CATARACT TGLs = 3-11
Note: ATROPHY TGLs = 2-11
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN

Kidney	Nephropathy	Chronic, Mild
Liver	Inflammation	Chronic, Minimal
	Leukemia Mononuclear	
Lung	Carcinoma	Metastatic (Uncertain Primary Site)
	Leukemia Mononuclear	
Lymph Node		

Note: MANDIBULAR LYMPH NODE: NORMAL.

Mammary Gland	Hyperplasia	Cystic, Moderate
Nose	Inflammation	Chronic Active, Minimal

Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5096	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Skin			
Note: TGL#1-SKIN MASS,LEFT SIDE OF HEAD,AS NOTED AT NECROPSY,			
Note: IS ZYMBALS GLD CARCINOMA HISTOPATHOLOGICALLY.			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:MONONUCLEAR CELL LEUKEMIA.

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5097	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Harderian Gland	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Tooth	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
Note: CATARACT TGLs = 1-11			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Inflammation	Chronic, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[Fibroadenoma TGLS = 2-12]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skin			
Note: IS MAMMARY GLD FIBROADENOMA HISTOPATHOLOGICALLY.			
Note: TGL#2-SKIN MASS,LEFT AXILLARY AREA,AS NOTED AT NECROPSY,			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Moderate
Note: ADENOCARC TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5097	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5098	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Tooth	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Note: PITUITARY ADENOMA.			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Rectum	Inflammation	Chronic Active, Moderate
	Rectum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 2-11			
[Polyp Adenomatous TGLS = 2-11]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lymph Node			
Note: MANDIBULR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 1-7			
Stomach			
Note: TGL#3-NCL-GLANDULAR STOMACH CONSIDERED TO BE WNL			
Note: HISTOPATHOLOGICALLY.			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5098	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5099	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Harderian Gland	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Thymus	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Mild
	Cortex	Hyperplasia	Mild
Blood		Leukemia Mononuclear	
Brain		Compression	
		Hydrocephalus	Marked
Note: PITUITARY ADENOMA.			
Note: COMPRESSION OF HYPOTHALMUS DUE TO PRESSURE FROM			
Eye			
Note: CONTENT.THIS ACCOUNTS FOR THE RED OCULAR DISCHARGE			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			
Note: NOTED CLINICALLY.			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-1			
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Note: HEPATOCLR CARC TGLs = 5-12			
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Hyperplasia	Cystic, Marked
Nose			
Note: RATS NORMALLY HAVE RED TEARS DUE TO THEIR PORPHYRIN			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5099	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 713
	DOSE: 250 PPM 10-10	**DISP:** Moribund Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CONTENT.THIS ACCOUNTS FOR THE RED NASAL DISCHARGE			
Note: NOTED CLINICALLY.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-11			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Chronic Active, Moderate
	Glandular	Inflammation	Chronic Active, Mild
Note: ACANTHOSIS TGLs = 6-6			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
	Follicular Cel	Adenoma	Multiple
	Follicular Cel	Hyperplasia	Marked
Note: ADENOCARC TGLs = 2-11			
Note: ADENOMA TGLs = 3-11			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF MORBIDITY:PITUITARY ADENOMA WITH
Animal Note: FOLLICUALR CELL ADENOCARCINOMA.
Animal Note: CELLULAR CARCINOMA,AND THYROID GLD.
Animal Note: RESULTANT COMPRESSION OF HYPOTHALMUS AND
Animal Note: HYDROCEPHALUS;SEVERE,CHRONIC NEPHROPATHY;
Animal Note: MONONUCLEAR CELL LEUKEMIA;HEPATO-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5100	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node
Ovary	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gl			
Note: LOGIC EXAMINATION.			
Note: ONLY ONE CLITORAL GLD AVAILABLE FOR HISTOPATHO-			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Lung		Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MANDIBULAR LYMPH NODE: NORMAL.			
Mammary Gland		Adenocarcinoma	
		Hyperplasia	Cystic, Mild
[Adenocarcinoma TGLS = 1-11]			
Nose	Nasolacrim Dct	Dilatation	Marked
	Nasolacrim Dct	Hyperkeratosis	Marked
	Mucosa, Nasolacrim Dct	Hyperplasia	Marked
	Nasolacrim Dct	Squamous Cell Papilloma	
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 3-7			
Skin			
Note: HISTOPATHOLOGICALLY.			
Note: NECROPSY,IS MAMMARY GLD ADENOCARCINOMA			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5100	**TRT#:** 16	**SEX:** Female	**DAY ON TEST:** 747
	DOSE: 250 PPM 10-10	**DISP:** Terminal Sacrifice	**HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL#1-SKIN MASS,RIGHT INGUINAL REGION,AS NOTED AT			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-1			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Moderate
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-10			

PRIMARY CAUSE OF DEATH -

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE