

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

F1_R2

C Number: C20009
Lock Date: 06/05/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 1	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule	TGLs = 1-14]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-15]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 2	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
	Periportal	Inflammation	Mild
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Inflammation TGLs = 2-6, 7]			
* Lung	Perivascular	Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
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Date Report Requested: 06/18/2010
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 3	TMT: 1	SEX: Male	DAY ON TEST: 499
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLs = 2-5]			
* Liver		Fatty Change	Marked
[Fatty Change TGLs = 4-15]			
Lymph Node	Mediastinal	Congestion	Moderate
[Congestion TGLs = 5-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Erosion	Moderate
		Hyperplasia	Squamous, Marked
		Ulcer	Marked
[Hyperplasia TGLs = 6-6, 16]			
[Ulcer TGLs = 7-14]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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 Lab: BAT

ANIMAL NUM: 4	TMT: 1	SEX: Male	DAY ON TEST: 664
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Islets, Pancreatic	* Lung
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas	* Prostate
* Trachea			

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Moderate
[Thrombosis TGLs = 2-14]			
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
	Centrilobular	Necrosis	Mild
Lymph Node		Congestion	Moderate
		Hyperplasia	Lymphoid, Moderate
[Congestion TGLs = 4-15]			
[Hyperplasia TGLs = 4-15]			
* Lymph Node, Mesenteric		Congestion	Moderate
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Preputial Gland		Inflammation	Mild

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 5	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Minimal
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Moderate
* Prostate		Inflammation	Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Thyroid Gland	C Cell	Adenoma	

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 6	TMT: 1	SEX: Male	DAY ON TEST: 676
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Moderate
* Kidney		Mesothelioma Malignant	
		Nephropathy	Moderate
* Liver		Fatty Change	Moderate
		Necrosis	Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 3-14]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Minimal
		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Mesothelioma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLs = 2-11]			
* Urinary Bladder		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 6

TMT: 1

SEX: Male

DAY ON TEST: 676

DOSE: 0 mg/l

DISP: Natural Death

HISTO: 0604486

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Testes Mesothelioma Malignant

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 7	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Rhabdomyosarcoma	Metastatic (Uncertain Primary Site)
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

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 beta-Picoline
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 8	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-15]			
* Nose		Inflammation	Minimal
		Necrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-16]			
* Prostate		Inflammation	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLs = 1-14]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
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 Lab: BAT

ANIMAL NUM: 9	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Spleen	Lymph Follic	Hyperplasia	Marked
[Hyperplasia TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
* Trachea		Amyloid Deposition	Mild

TDMS No. 20009 - 03
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 Lab: BAT

ANIMAL NUM: 10	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
* Lung		Leukemia Mononuclear	
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 11	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 2-14]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL NUM: 12	TMT: 1 DOSE: 0 mg/l	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 0604492
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLs = 6-8]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
[Eosinophilic Focus TGLs = 9-17, 10-18]			
[Hepatocellular Adenoma TGLs = 5-15, 8-16]			
[Leukemia Mononuclear TGLs = 4-6, 7]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 12	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604492

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 7-8]			
* Prostate		Hyperplasia	Adenomatous, Mild
		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLs = 2-11]			
[Atrophy TGLs = 3-11]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 13	TMT: 1 DOSE: 0 mg/l	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 0604493
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 8-8]		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 7-20]		
	[Hepatocellular Adenoma TGLs = 5-18]		
	[Hepatodiaphragmatic Nodule TGLs = 6-19]		
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 13	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604493

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 10-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 11-17]			
* Mammary Gland		Galactoceles	Mild
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
Peritoneum		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 9-8]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-15]			
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Moderate
* Stomach, Glandular		Fibrosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			
* Thymus		Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 14	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 15	TMT: 1 DOSE: 0 mg/l	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 0604495
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Adenoma	
[Adenoma TGLs = 5-14]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-15]			
* Pancreas		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 16	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Esophagus		Inflammation	Suppurative, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pancreas		Adenoma	Mixed Cell
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Skin		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 17	TMT: 1	SEX: Male	DAY ON TEST: 467
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		
	[Leukemia Mononuclear TGLs = 4-16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 17	TMT: 1	SEX: Male	DAY ON TEST: 467
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604497

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Minimal
	Respirat Epith	Ulcer	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-14]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 18	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLs = 5-17]		
	[Eosinophilic Focus TGLs = 1-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-8]		
* Preputial Gland		Inflammation	Moderate
* Prostate		Inflammation	Mild
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLs = 3-15, 4-16]		
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 19	TMT: 1	SEX: Male	DAY ON TEST: 593
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
[Hemorrhage TGLs = 3-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 20	TMT: 1	SEX: Male	DAY ON TEST: 273
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis	Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 3-11]		
* Heart	Cardiomyopathy	Minimal
* Intestine Large, Colon	Mesothelioma Malignant	
* Intestine Small, Duodenum	Mesothelioma Malignant	
* Intestine Small, Ileum	Mesothelioma Malignant	
* Intestine Small, Jejunum	Mesothelioma Malignant	
* Kidney	Mesothelioma Malignant	
* Liver	Fatty Change	Moderate
[Fatty Change TGLs = 4-6, 7]		
Mesentery	Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 2-14]		
* Pancreas	Mesothelioma Malignant	
* Prostate	Mesothelioma Malignant	
* Seminal Vesicle	Mesothelioma Malignant	
* Spleen	Mesothelioma Malignant	
* Stomach, Forestomach	Mesothelioma Malignant	
* Testes	Atrophy	Moderate
* Urinary Bladder	Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 21	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactoceles	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 22	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland		Cyst	Minimal
		Metaplasia	Osseous, Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 23	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Spleen		Leukemia Mononuclear	
* Testes		Atrophy	Marked
		Inflammation	Chronic Active, Mild
[Atrophy TGLs = 2-11]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLs = 3-8]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 24	TMT: 1 DOSE: 0 mg/l	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 726 HISTO: 0604504
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Eosinophilic Focus TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 25	TMT: 1	SEX: Male	DAY ON TEST: 391
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
Lymph Node	Mediastinal	Hyperplasia	Moderate
[Hyperplasia TGLs = 2-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 26	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 27	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	Mild
		Hyperplasia	Squamous, Marked
[Hyperplasia TGLs = 1-14]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 28	TMT: 1	SEX: Male	DAY ON TEST: 504
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
Blood Vessel	Aorta	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 28	TMT: 1	SEX: Male	DAY ON TEST: 504
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604508

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Stomach, Glandular		Erosion	Minimal
* Testes	Interstit Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 29	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
[Hepatocellular Adenoma TGLs = 1-14]			
* Mammary Gland		Galactoceles	Minimal
		Hyperplasia	Minimal
* Nose		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 30	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone		Hyperostosis	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[Eosinophilic Focus TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 30	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604510

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Adenoma
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 31	TMT: 1	SEX: Male	DAY ON TEST: 685
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Inflammation	Chronic Active, Moderate
	Sclera	Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactoceles	Mild
[Galactoceles TGLs = 1-14]			
* Nose	Respirat Epith	Degeneration	Cystic, Mild
	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Inflammation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 32	TMT: 1	SEX: Male	DAY ON TEST: 676
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-15]		
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
	[Ulcer TGLs = 2-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 33	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Eosinophilic Focus TGLs = 5-16, 6-17]			
[Hepatodiaphragmatic Nodule TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
[Hyperplasia TGLs = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 33	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604513

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-11]			
* Trachea	Glands	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 34	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 6-17]		
	[Leukemia Mononuclear TGLs = 5-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-19]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10-20]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 34	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604514

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 9-16]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-18]		
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-11]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 7-8]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 35	TMT: 1	SEX: Male	DAY ON TEST: 654
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Galactoceles	Mild
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
	Respirat Epith	Ulcer	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	
* Trachea	Glands	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 36	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Galactocoele	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Stomach, Glandular		Hyperplasia	Mild
[Hyperplasia TGLs = 3-14]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 37	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 38	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Ear		Cyst	Minimal
		Hyperplasia	Squamous, Marked
[Hyperplasia TGLs = 1-14]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Mammary Gland		Galactoceles	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
* Thyroid Gland		Congestion	Minimal
	C Cell	Hyperplasia	Minimal
[Congestion TGLs = 4-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 39

TMT: 1

SEX: Male

DAY ON TEST: 16

DOSE: 0 mg/l

DISP: Moribund Sacrifice

HISTO: 0604519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* 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	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Stomach, Forestomach

Hyperplasia

Squamous, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 40	TMT: 1	SEX: Male	DAY ON TEST: 677
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 3-14]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 40	TMT: 1	SEX: Male	DAY ON TEST: 677
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604520

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 41	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-5]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 3-8]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 42	TMT: 1	SEX: Male	DAY ON TEST: 658
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4-15, 16]		
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
	[Fatty Change TGLs = 3-6, 7]		
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 5-17]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 42	TMT: 1	SEX: Male	DAY ON TEST: 658
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604522

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant
[Adenoma TGLs = 2-11]		
PRIMARY CAUSE OF DEATH	- Epididymis Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 43	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
Ear		Neural Crest Tumor	
[Neural Crest Tumor TGLs = 1-14]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-6, 7]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Marked
[Ectasia TGLs = 5-16]			
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-15]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 43	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604523

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-11]	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 44	TMT: 1 DOSE: 0 mg/l	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 713 HISTO: 0604524
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Carcinoma	Metastatic (Harderian Gland)
* Eye		Carcinoma	Metastatic (Harderian Gland)
[Carcinoma TGLs = 1-10]			
* Harderian Gland		Carcinoma	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Carcinoma	Metastatic (Harderian Gland)
[Carcinoma TGLs = 9-3, 4]			
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Harderian Gland)
[Carcinoma TGLs = 4-15]			
* Nose		Carcinoma	Metastatic (Harderian Gland)
		Foreign Body	Minimal
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Skin		Carcinoma	Metastatic (Harderian Gland)
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 44	TMT: 1	SEX: Male	DAY ON TEST: 713
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604524

ORGAN AND ACCOUNTABLE SITE STATUS

	[Carcinoma TGLs = 2-1, 2]		
	[Inflammation TGLs = 3-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-5]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 5-11]		
* Thymus		Carcinoma	Metastatic (Harderian Gland)
	[Carcinoma TGLs = 8-17]		
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLs = 6-16]		
PRIMARY CAUSE OF DEATH - Skin Carcinoma Harderian Gland			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 45	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLs = 2-14]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 46	TMT: 1	SEX: Male	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pancreas	Acinus	Atrophy	Minimal
		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 1-14]			
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 47	TMT: 1	SEX: Male	DAY ON TEST: 726
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 48	TMT: 1	SEX: Male	DAY ON TEST: 683
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pancreas		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-16]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLs = 2-15]			
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 48	TMT: 1	SEX: Male	DAY ON TEST: 683
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604528

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 49	TMT: 1	SEX: Male	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Hepatodiaphragmatic Nodule	TGLs = 4-15]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLs = 2-8]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 50	TMT: 1	SEX: Male	DAY ON TEST: 600
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Adrenal Medulla		Pheochromocytoma Complex	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Intestine Large, Cecum		Necrosis	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Mesothelioma Malignant	
		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Carcinoma	Metastatic (Preputial Gland)
	[Alveolar/Bronchiolar Adenoma		
* Pituitary Gland	TGLs = 5-17]	Adenoma	
* Preputial Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLs = 1-14]		
* Prostate		Inflammation	Minimal
		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 50	TMT: 1	SEX: Male	DAY ON TEST: 600
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604530

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Adenoma TGLs = 2-15]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLs = 3-16]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 4-11]			
PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 51	TMT: 3	SEX: Male	DAY ON TEST: 638
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		
	[Leukemia Mononuclear TGLs = 4-16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-17]		
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 51	TMT: 3	SEX: Male	DAY ON TEST: 638
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604531

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 52	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Carcinoma	
[Carcinoma TGLs = 1-14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 53	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lymph Node, Mesenteric	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Inflammation	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Cyst	Mild
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLs = 1-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 54	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Lung		Leukemia Mononuclear	
* Nose		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 2-14]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 54	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604534

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-11]

* Thyroid Gland

C Cell

Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 55	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
[Clear Cell Focus TGLs = 3-15, 4-16]			
[Mixed Cell Focus TGLs = 4-16]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-14]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 55

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604535

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 56	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
	[Leukemia Mononuclear TGLs = 3-6, 7]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 57	TMT: 3	SEX: Male	DAY ON TEST: 697
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-16]		
	[Leukemia Mononuclear TGLs = 6-17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 57	TMT: 3	SEX: Male	DAY ON TEST: 697
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604537

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Moderate
		Adenoma	Mixed Cell
	Acinus	Atrophy	Moderate
	[Adenoma TGLs = 3-15]		
* Pituitary Gl			
	Note: NO CORRELATING LESION TGL - 7.		
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
* Stomach, Glandular		Erosion	Mild
		Inflammation	Chronic Active, Minimal
* Testes		Adenoma	
	Bilateral, Interstit Cell		
	[Adenoma TGLs = 1-11]		
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 58	TMT: 3	SEX: Male	DAY ON TEST: 589
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-15]		
* Nose	Respirat Epith	Adenoma	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 58	TMT: 3	SEX: Male	DAY ON TEST: 589
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604538

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 59	TMT: 3	SEX: Male	DAY ON TEST: 720
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
	[Hepatodiaphragmatic Nodule TGLs = 3-14]		
	[Vacuolization Cytoplasmic TGLs = 4-15]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-8]		
* Prostate		Inflammation	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	[Adenoma TGLs = 2-11]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 60	TMT: 3	SEX: Male	DAY ON TEST: 544
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Blood Vessel	Aorta	Leukemia Mononuclear Inflammation	Chronic Active, Moderate
* Bone			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Infarct	Acute, Mild
		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-6,7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-15]		
[Leukemia Mononuclear	TGLs = 8-19]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 7-18]		
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 60	TMT: 3	SEX: Male	DAY ON TEST: 544
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604540

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-8]			
* Prostate		Inflammation	Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Spleen	Capsule	Hemorrhage	Mild
		Leukemia Mononuclear	
[Hemorrhage TGLs = 5-17]			
[Leukemia Mononuclear TGLs = 4-16]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 61	TMT: 3	SEX: Male	DAY ON TEST: 717
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Medulla	* Pituitary Gland
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OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Mild
* Kidney		Dilatation	Minimal
	Medulla, Renal Tubule	Necrosis	Mild
		Nephropathy	Moderate
[Dilatation TGLs = 5-5]			
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
[Hepatocellular Adenoma TGLs = 4-16]			
* Pancreas	Acinus	Atrophy	Moderate
* Prostate		Inflammation	Marked
* Seminal Vesicle		Dilatation	Moderate
[Dilatation TGLs = 2-14]			
* Spleen	Lymph Follic	Depletion Cellular	Moderate
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 61	TMT: 3	SEX: Male	DAY ON TEST: 717
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604541

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-11]		
* Urinary Bladder	Hemorrhage	Mild
	Inflammation	Suppurative, Marked
[Inflammation TGLs = 3-15]		
PRIMARY CAUSE OF DEATH	- Urinary Bladder	Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 62	TMT: 3	SEX: Male	DAY ON TEST: 645
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
Lymph Node	Mediastinal	Hyperplasia	Mild
[Hyperplasia TGLs = 3-3]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-14]			
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 63	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 64	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
* Mammary Gland		Galactoceles	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-15]			
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
* Testes	Interstitial Cell	Adenoma	
		Atrophy	Mild
[Adenoma TGLs = 1-14]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 65	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 65	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604545

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 66	TMT: 3	SEX: Male	DAY ON TEST: 664
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Hemorrhage	Mild
	[Hemorrhage TGLs = 5-15]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 66	TMT: 3	SEX: Male	DAY ON TEST: 664
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604546

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Minimal
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 67	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic	TGLs = 2-6, 7]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-14]			
* Preputial Gland		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 68	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactocoele	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 69	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Infiltration Cellular	Mixed Cell, Minimal
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Galactocoele	Minimal
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-14]			
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Prostate		Inflammation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 70	TMT: 3	SEX: Male	DAY ON TEST: 498
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 71	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLs = 1-14]			
* Testes	Interstit Cell	Adenoma	
		Atrophy	Mild
[Adenoma TGLs = 2-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 72	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 6-19]		
	[Leukemia Mononuclear TGLs = 5-18]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-20]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 4-17]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 72	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604552

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Hemangioma	
[Hemangioma TGLs = 2-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-16]			
* Stomach, Forestomach		Fibrosis	Moderate
		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 73	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLs = 2-15]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
[Carcinoma TGLs = 1-14]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 74	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Marked
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic	TGLs = 2-6, 7]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 1-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 75	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Nose		Foreign Body	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 77	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Lung	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Ectasia	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLs = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 78	TMT: 3	SEX: Male	DAY ON TEST: 666
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
[Leukemia Mononuclear	TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal, Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4-15, 7-17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 6-16]		
* Pancreas	Acinus	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 78	TMT: 3	SEX: Male	DAY ON TEST: 666
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604558

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 79	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 80	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic	TGLs = 2-6, 7]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 1-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 81	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Metaplasia	Squamous, Minimal
* Lymph Node, Mesenteric		Ectasia	Mild
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 1-14]			
* Nose		Foreign Body	Minimal
	Squam Epithel	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 82	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Skin		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma	TGLs = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 2-11]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 83	TMT: 3	SEX: Male	DAY ON TEST: 567
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
* Nose		Mineralization	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	
	C Cell	Carcinoma	
[Carcinoma	TGLs = 1-14]		
[Carcinoma	TGLs = 1-14]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 84	TMT: 3	SEX: Male	DAY ON TEST: 694
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 5-16]		
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 84	TMT: 3	SEX: Male	DAY ON TEST: 694
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604564

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLs = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 85	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Moderate
* Liver	Vein	Dilatation	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Dilatation TGLs = 4-17]		
	[Leukemia Mononuclear TGLs = 5-18, 6-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-16]		
* Nose		Foreign Body	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 85	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604565

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-14]		
* Prostate	Inflammation	Mild
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-15]		
* Stomach, Forestomach	Hyperplasia	Squamous, Moderate
	Ulcer	Moderate

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 86	TMT: 3	SEX: Male	DAY ON TEST: 673
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Marked
* Liver		Fatty Change	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Squamous Cell Papilloma	
* Testes		Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Hyperplasia TGLs = 1-11]			
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 87	TMT: 3	SEX: Male	DAY ON TEST: 693
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Moderate
* Kidney		Mesothelioma Malignant	
		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Moderate
	Bile Duct	Hyperplasia	Moderate
	[Atrophy TGLs = 4-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2-14]		
* Nose		Foreign Body	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Squamous, Moderate
* Prostate		Inflammation	Mild
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 87	TMT: 3	SEX: Male	DAY ON TEST: 693
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604567

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Mesothelioma Malignant	
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLs = 3-11]			
PRIMARY CAUSE OF DEATH	- Testes	Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 88	TMT: 3	SEX: Male	DAY ON TEST: 684
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* 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, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Esophagus		Hyperplasia	Squamous, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
* Mammary Gland		Fibroadenoma	
		Galactoceles	Minimal
	[Fibroadenoma TGLs = 1-14]		
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-16]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 2-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 88	TMT: 3	SEX: Male	DAY ON TEST: 684
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604568

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLs = 3-11]			
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 89	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-15]			
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 90	TMT: 3	SEX: Male	DAY ON TEST: 686
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 6-16]			
* Adrenal Medulla		Osteosarcoma	Metastatic (Uncertain Primary Site)
* Epididymis		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 5-11]			
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
	Capsule	Osteosarcoma	Metastatic (Uncertain Primary Site)
* Liver		Fatty Change	Mild
		Necrosis	Mild
		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 7-17, 8-18, 9-19, 10-20, 11-21]			
* Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 13-3, 4]			
* Mammary Gland		Galactoceles	Minimal
Mesentery		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 2-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 90	TMT: 3	SEX: Male	DAY ON TEST: 686
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604570

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Osteosarcoma	Metastatic (Uncertain Primary Site)
Peritoneum		Osteosarcoma	Metastatic (Uncertain Primary Site)
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 12-22]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
		Osteosarcoma	Metastatic (Uncertain Primary Site)
* Spleen		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLs = 3-15]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 4-11]			
PRIMARY CAUSE OF DEATH	- Liver	Osteosarcoma	Uncertain Primary Site

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 91	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 92	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Pelvis	Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-15]		
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 92	TMT: 3	SEX: Male	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604572

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-16]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLs = 1-14]			
* Prostate		Inflammation	Marked
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 93	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Carcinoma	Metastatic (Thyroid Gland)
Lymph Node	Mediastinal	Infiltration Cellular	Mixed Cell, Mild
[Infiltration Cellular TGLs = 3-15]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Prostate		Inflammation	Minimal
* Salivary Glands	Duct	Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 93	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604573

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Carcinoma
[Carcinoma TGLs = 2-14]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 94	TMT: 3	SEX: Male	DAY ON TEST: 719
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart	Valve	Cardiomyopathy	Mild
	Atrium	Inflammation	Chronic Active, Marked
		Thrombosis	Moderate
[Thrombosis TGLs = 4-7]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Periportal	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
[Leukemia Mononuclear TGLs = 2-6, 7]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLs = 3-8]			
* Prostate		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 94	TMT: 3	SEX: Male	DAY ON TEST: 719
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604574

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-5]		
* Stomach, Forestomach	Ulcer	Mild
[Ulcer TGLs = 6-14]		
* Stomach, Glandular	Erosion	Minimal
[Erosion TGLs = 5-6]		
* Testes	Atrophy	Moderate
	Hyperplasia	Minimal
	Interstit Cell	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear	
CONTRIBUTORY CAUSE OF DEATH	- Heart Valve Inflammation	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 95	TMT: 3	SEX: Male	DAY ON TEST: 713
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 6-18]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4-16]		
Mesentery	Fat	Necrosis	Minimal
[Necrosis	TGLs = 5-17]		
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 95	TMT: 3	SEX: Male	DAY ON TEST: 713
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604575

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Prostate		Inflammation	Minimal
* Salivary Glands		Infiltration Cellular	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-15]			
* Stomach, Forestomach		Angiectasis	Mild
		Fibrosis	Mild
		Hyperplasia	Squamous, Moderate
* Stomach, Glandular		Angiectasis	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 96	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 2-14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Prostate		Inflammation	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLs = 4-16]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 97	TMT: 3	SEX: Male	DAY ON TEST: 664
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Hemangiosarcoma	
		Leukemia Mononuclear	
		Nephropathy	Moderate
[Hemangiosarcoma TGLs = 4-16]			
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 6-3, 4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-15]			
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-14]			
* Stomach, Glandular		Erosion	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 97	TMT: 3	SEX: Male	DAY ON TEST: 664
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604577

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Inflammation	Chronic Active, Minimal
	Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]		Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 98	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung		Leukemia Mononuclear	
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-14]			
* Stomach, Forestomach		Inflammation	Minimal
* Testes		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 99	TMT: 3	SEX: Male	DAY ON TEST: 726
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 100	TMT: 3	SEX: Male	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Ileum		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Marked
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
[Hepatodiaphragmatic Nodule	TGLs = 1-14]		
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-15]			
* Prostate		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 101	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 4-15]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 3-14]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 5-16]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 101	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604581

ORGAN AND ACCOUNTABLE SITE STATUS

	Atrophy	Moderate
[Adenoma TGLs = 1-11]		
[Atrophy TGLs = 2-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 102	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Eye	Cornea	Hyperplasia	Squamous, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLs = 4-14]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 103	TMT: 5	SEX: Male	DAY ON TEST: 569
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland		Cyst	Moderate
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	

[Cyst TGLs = 1-14]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 103	TMT: 5	SEX: Male	DAY ON TEST: 569
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604583

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-15]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 104	TMT: 5	SEX: Male	DAY ON TEST: 393
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Ectasia	Marked
[Ectasia TGLs = 2-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLs = 1-14]			

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 105	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
[Clear Cell Focus TGLs = 4-14]			
* Lymph Node, Mesenteric		Ectasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 3-15]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Leiomyosarcoma	
[Adenoma TGLs = 2-11]			
[Leiomyosarcoma TGLs = 1-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 106	TMT: 5	SEX: Male	DAY ON TEST: 681
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLs = 8-9, 9-9]		
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Infarct	Acute, Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
	[Infarct TGLs = 5-5]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 106	TMT: 5	SEX: Male	DAY ON TEST: 681
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604586

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 6-16]			
* Lymph Node, Mesenteric		Carcinoma	Metastatic (Uncertain Primary Site)
[Carcinoma TGLs = 1-17]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-15]			
* Stomach, Forestomach		Edema	Moderate
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
[Ulcer TGLs = 7-14]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 4-11]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 107	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLs = 2-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 107	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604587

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 4-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 108	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Pelvis	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
[Clear Cell Focus TGLs = 2-6, 7, 14]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 109	TMT: 5	SEX: Male	DAY ON TEST: 657
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Inflammation	Chronic Active, Moderate
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Carcinoma	Metastatic (Zymbal'S Gland)
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Nervosa	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLs = 1-14]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 110	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 111	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Ectasia	Minimal
* Pancreas		Cyst	Mild
	[Cyst TGLs = 4-16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 1-14]		
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 111	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604591

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLs = 2-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 112	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
	[Clear Cell Focus TGLs = 4-6, 7, 15]		
	[Mixed Cell Focus TGLs = 4-15]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Skin		Basal Cell Adenoma	
	Subcut Tiss	Lipoma	
	[Basal Cell Adenoma TGLs = 2-16]		
	[Lipoma TGLs = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 113	TMT: 5	SEX: Male	DAY ON TEST: 701
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

ANIMAL NUM: 114	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLs = 6-6, 7 17]			
* Mammary Gland		Adenoma	
		Galactoceles	Moderate
[Adenoma TGLs = 3-16]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 4-8]			
* Skin		Keratoacanthoma	
		Squamous Cell Papilloma	
[Keratoacanthoma TGLs = 1-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 114

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 312.5 mg/l

DISP: Terminal Sacrifice

HISTO: 0604594

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLs = 2-15]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 5-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 115	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign	TGLs = 3-14]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy	TGLs = 2-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 4-15]		
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma	TGLs = 1-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 116	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
[Clear Cell Focus TGLs = 2-6, 7, 14]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 117	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Adrenal Medulla

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 118	TMT: 5	SEX: Male	DAY ON TEST: 673
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLs = 1-14]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 119	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
[Alveolar/Bronchiolar Carcinoma TGLs = 5-16]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-15]			
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 119	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604599

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 120	TMT: 5	SEX: Male	DAY ON TEST: 646
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-14]		
* Stomach, Forestomach		Fibrosis	Moderate
		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 120

TMT: 5

SEX: Male

DAY ON TEST: 646

DOSE: 312.5 mg/l

DISP: Moribund Sacrifice

HISTO: 0604600

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-11]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 121	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant	TGLs = 2-14]		
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3-15]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 121	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604601

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 4-16]			
* Testes	Interstit Cell	Adenoma	Minimal
	Interstit Cell	Hyperplasia	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Carcinoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 122	TMT: 5	SEX: Male	DAY ON TEST: 615
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma		
* Nose	TGLs = 1-14]	Foreign Body	Minimal
	Nasolacrim Dct	Hyperplasia	Squamous, Minimal
	Nasolacrim Dct	Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-8]		
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 123	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye	Cornea	Hyperplasia	Squamous, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Salivary Glands		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-5]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 123

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 312.5 mg/l

DISP: Terminal Sacrifice

HISTO: 0604603

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 124	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Pancreas
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
Lymph Node	Mediastinal	Hyperplasia	Moderate
* Mammary Gland		Galactoceles	Mild
* Nose		Foreign Body	Mild
	Respiratory Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate		Inflammation	Marked
* Seminal Vesicle		Inflammation	Moderate
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 125	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Galactoceles	Mild
* Nose		Foreign Body	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 126	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Minimal
[Hepatodiaphragmatic Nodule	TGLs = 2-14]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[Alveolar/Bronchiolar Carcinoma	TGLs = 4-3, 5-16]		
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage	TGLs = 3-15]		
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 6-17]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 126	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604606

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 127	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
[Clear Cell Focus TGLs = 2-6, 7, 14]			
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 128	TMT: 5	SEX: Male	DAY ON TEST: 618
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Necrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
		Degeneration	Cystic, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-6, 7]		
* Lung	Perivascular	Hemorrhage	Mild
		Leukemia Mononuclear	
	[Hemorrhage TGLs = 5-3, 4]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-17]		
* Nose		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 128	TMT: 5	SEX: Male	DAY ON TEST: 618
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604608

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Marked
	[Inflammation TGLs = 4-13]		
* Seminal Vesicle		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		
* Testes		Adenoma	
	[Adenoma TGLs = 1-11]		
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 129	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 130	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 131	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Intermed	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 132	TMT: 5	SEX: Male	DAY ON TEST: 586
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-16]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 2-14]		
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 132	TMT: 5	SEX: Male	DAY ON TEST: 586
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604612

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 3-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 133	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Sarcoma	
[Sarcoma TGLs = 7-14]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLs = 5-18]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 4-17]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-19]			
* Preputial Gland		Adenoma	
[Adenoma TGLs = 1-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 133	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604613

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Minimal
* Skin	Keratoacanthoma	
[Keratoacanthoma TGLs = 2-16]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLs = 3-11]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 134	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Carcinoma	
[Carcinoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 135	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Marked
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-18]		
	[Leukemia Mononuclear TGLs = 8-20]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-19]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 135	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604615

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 9-21]			
* Preputial Gland		Cyst	Mild
[Cyst TGLs = 1-14]			
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLs = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-15]			
* Testes		Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 5-17]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 136	TMT: 5	SEX: Male	DAY ON TEST: 643
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hemorrhage	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Galactoceles	Mild
* Nose		Inflammation	Minimal
* Pancreas		Infiltration Cellular	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 137	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
[Fibrosis TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLs = 4-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-17]			
* Prostate		Inflammation	Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLs = 1-14]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 137

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 312.5 mg/l

DISP: Terminal Sacrifice

HISTO: 0604617

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-11]

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 138	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	Multiple
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
		Cyst	Moderate
[Cyst TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 139	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear	TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 5-16]		
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 139	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604619

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLs = 1-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 140	TMT: 5	SEX: Male	DAY ON TEST: 646
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-16]		
* Prostate		Inflammation	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 141	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Lymphoma Malignant	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Uncertain Primary Site)
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
[Eosinophilic Focus TGLs = 5-6, 7]			
[Hepatodiaphragmatic Nodule TGLs = 6-16]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-14]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 141	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604621

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 7-17]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Spleen		Inflammation	Granulomatous, Moderate
		Lymphoma Malignant	
[Inflammation TGLs = 4-15]			
[Lymphoma Malignant TGLs = 3-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 142	TMT: 5	SEX: Male	DAY ON TEST: 646
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant	TGLs = 1-14]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3-16]		
* Prostate		Inflammation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma	TGLs = 2-15]		

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 143	TMT: 5	SEX: Male	DAY ON TEST: 692
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-15]		
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3-16]		
* Preputial Gland		Carcinoma	
[Carcinoma	TGLs = 1-14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 143	TMT: 5	SEX: Male	DAY ON TEST: 692
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604623

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Minimal
* Spleen	Leukemia Mononuclear	
* Testes	Atrophy	Moderate
	Interstit Cell	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 144	TMT: 5	SEX: Male	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
[Hepatocellular Carcinoma	TGLs = 4-15]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
[Adenoma	TGLs = 2-14]		
* Testes	Interstit Cell	Adenoma	
[Adenoma	TGLs = 1-11]		
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 145	TMT: 5	SEX: Male	DAY ON TEST: 713
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Atrophy	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Marked
	Periportal	Inflammation	Mild
[Atrophy TGLs = 3-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Preputial Gland		Inflammation	Moderate
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 146	TMT: 5	SEX: Male	DAY ON TEST: 722
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-18]		
* Mammary Gland		Galactoceles	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 4-16]		
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 146	TMT: 5	SEX: Male	DAY ON TEST: 722
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604626

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLs = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-15]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-17]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 147	TMT: 5	SEX: Male	DAY ON TEST: 701
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
[Compression TGLs = 3-9]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
* Mammary Gland		Galactoceles	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate		Inflammation	Minimal
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 148	TMT: 5	SEX: Male	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-6, 7]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia	TGLs = 3-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 1-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 149	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis	Bilateral	Mesothelioma Malignant	
[Mesothelioma Malignant	TGLs = 2-14]		
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant	TGLs = 4-15]		
* Pancreas	Acinus	Atrophy	Minimal
		Mesothelioma Malignant	
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 5-8]		
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 149	TMT: 5	SEX: Male	DAY ON TEST: 726
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604629

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 150

TMT: 5

SEX: Male

DAY ON TEST: 721

DOSE: 312.5 mg/l

DISP: Natural Death

HISTO: 0604630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Malignant	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Centrilobular	Necrosis	Mild
[Necrosis TGLs = 3-6, 7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Moderate
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 150	TMT: 5	SEX: Male	DAY ON TEST: 721
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604630

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leiomyoma

[Leiomyoma TGLs = 5-15]

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 151	TMT: 7	SEX: Male	DAY ON TEST: 702
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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, Mesenteric	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule	TGLs = 3-15]		
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLs = 2-14]			
* Mammary Gland		Galactoceles	Minimal
		Hyperplasia	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Preputial Gland		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 151	TMT: 7	SEX: Male	DAY ON TEST: 702
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604631

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Cyst	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 152	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule	TGLs = 4-15]		
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 1-16]		
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-14]		
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 2-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 153	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Trachea		Inflammation	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 154	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Eye	Cornea	Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 155	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Nose	Glands	Cyst	Minimal
		Edema	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Hyperplasia	Adenomatous, Minimal
		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 2-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 156	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
[Eosinophilic Focus TGLs = 3-15]			
[Hepatocellular Adenoma TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 157	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
[Eosinophilic Focus TGLs = 3-14]			
* Mammary Gland		Galactoceles	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 158	TMT: 7	SEX: Male	DAY ON TEST: 545
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Minimal
* Heart		Carcinoma	Metastatic (Salivary Glands)
		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Carcinoma	
	[Carcinoma TGLs = 3-9, 14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		

PRIMARY CAUSE OF DEATH - Salivary Glands Carcinoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 159	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
[Eosinophilic Focus TGLs = 1-6, 7]			
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-14]			
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 159	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604639

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLs = 5-8]			
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 4-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 160	TMT: 7	SEX: Male	DAY ON TEST: 701
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Sclera	Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLs = 1-6, 7]		
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-14]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
Peritoneum		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 160	TMT: 7	SEX: Male	DAY ON TEST: 701
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604640

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 4-16]		Metaplasia	Osseous, Minimal
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Stomach, Glandular		Ulcer	Mild
[Ulcer TGLs = 5-15]			
* Testes	Interstit Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH		- Spleen	Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 161	TMT: 7	SEX: Male	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 162	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Ectasia	Mild
[Ectasia TGLs = 4-15]			
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Hyperplasia	Mild
		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 163	TMT: 7	SEX: Male	DAY ON TEST: 552
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Moderate
	Olfactory Epi	Necrosis	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-14]		
* Stomach, Glandular		Ulcer	Minimal
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 164	TMT: 7	SEX: Male	DAY ON TEST: 568
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
[Hemorrhage TGLs = 4-16]			
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
		Necrosis	Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 164	TMT: 7	SEX: Male	DAY ON TEST: 568
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604644

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear
* Spleen	[Hyperplasia TGLs = 2-15]	
		Leukemia Mononuclear
* Testes	[Leukemia Mononuclear TGLs = 1-14]	
	Bilateral, Interstit Cell	Adenoma
		Leukemia Mononuclear
* Thymus	[Adenoma TGLs = 3-11]	
* Thyroid Gland	C Cell	Leukemia Mononuclear
		Adenoma
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 165	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 166	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2-14]		
	[Mixed Cell Focus TGLs = 3-15, 4-16]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	[Adenoma TGLs = 1-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 167	TMT: 7	SEX: Male	DAY ON TEST: 664
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Deep Cervical	Ectasia	Mild
[Ectasia TGLs = 2-15]			
* Mammary Gland		Galactocoele	Mild
* Nose	Olfactory Epi	Erosion	Mild
		Foreign Body	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-16]			
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 167	TMT: 7	SEX: Male	DAY ON TEST: 664
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604647

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 4-17]		Ulcer	Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 168	TMT: 7	SEX: Male	DAY ON TEST: 673
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Minimal
		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 169	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Nose		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 170	TMT: 7	SEX: Male	DAY ON TEST: 694
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
* Intestine Large, Rectum		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
* Kidney		Accumulation, Hyaline Droplet	Marked
		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
		Nephropathy	Mild
	[Fibrous Histiocytoma TGLs = 3-5]		
* Liver		Fatty Change	Mild
		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
	Bile Duct	Hyperplasia	Minimal
	[Fibrous Histiocytoma TGLs = 4+6-6, 7, 16]		
* Lung		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
	[Fibrous Histiocytoma TGLs = 8-3, 4]		
* Lymph Node, Mesenteric		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
	[Fibrous Histiocytoma TGLs = 9-18]		
Mesentery		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
* Pancreas		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 170	TMT: 7	SEX: Male	DAY ON TEST: 694
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604650

ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle		Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLs = 2-15]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Spleen	Capsule	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Inflammation	Mild
		Ulcer	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 5-11]			
* Thymus		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
[Fibrous Histiocytoma TGLs = 7-17]			
* Urinary Bladder		Fibrous Histiocytoma	Metastatic (Skeletal Muscle)
PRIMARY CAUSE OF DEATH	- Skeletal Muscle Fibrous Histiocytoma		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 171	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
* Pancreas		Lipomatosis	Minimal
* Prostate		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 172	TMT: 7	SEX: Male	DAY ON TEST: 586
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign	TGLs = 1-14]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 173	TMT: 7	SEX: Male	DAY ON TEST: 713
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Mammary Gland		Galactocoele	Mild
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-15]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 174	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	
Lymph Node	Mediastinal	Ectasia	Mild
[Ectasia TGLs = 3-15]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 175	TMT: 7	SEX: Male	DAY ON TEST: 657
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Hyperostosis	Minimal
[Hyperostosis TGLs = 4-14]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-16]			
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 175	TMT: 7	SEX: Male	DAY ON TEST: 657
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604655

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 1-15]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 176	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Mild
* Prostate		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 177	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Minimal
[Eosinophilic Focus TGLs = 2-14, 3-15]			
[Mixed Cell Focus TGLs = 4-16]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 178	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 178	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604658

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Hyperplasia	Squamous, Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			
* Urinary Bladder		Infiltration Cellular	Mixed Cell, Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 179	TMT: 7	SEX: Male	DAY ON TEST: 618
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 180	TMT: 7	SEX: Male	DAY ON TEST: 631
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
[Hyperplasia TGLs = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-11]			
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLs = 1-14]			

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 181	TMT: 7	SEX: Male	DAY ON TEST: 499
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-3, 5-4]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-15]		
* Nose	Respirat Epith	Erosion	Moderate
		Foreign Body	Mild
* Pancreas	Acinus	Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-14]		
* Testes		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 181	TMT: 7	SEX: Male	DAY ON TEST: 499
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604661

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 182	TMT: 7	SEX: Male	DAY ON TEST: 691
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Necrosis	Moderate
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 2-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 183	TMT: 7	SEX: Male	DAY ON TEST: 681
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
	Epicardium	Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Marked
* Liver		Congestion	Minimal
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
[Congestion TGLs = 4-6, 7]			
* Lung		Foreign Body	Minimal
		Inflammation	Granulomatous, Mild
* Pancreas	Acinus	Atrophy	Moderate
Peritoneum		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Moderate
[Inflammation TGLs = 1-12]			
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Inflammation	Chronic Active, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 183

TMT: 7

SEX: Male

DAY ON TEST: 681

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604663

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-11]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 184	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-14]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 185	TMT: 7	SEX: Male	DAY ON TEST: 607
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 3-14]		
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma	TGLs = 4-3, 5-4]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma	TGLs = 2-11]		
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 186	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 187	TMT: 7	SEX: Male	DAY ON TEST: 720
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
[Hepatocellular Adenoma TGLs = 4-15]			
[Hepatodiaphragmatic Nodule TGLs = 3-14]			
* Mammary Gland		Galactoceles	Mild
* Nose		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 187

TMT: 7

SEX: Male

DAY ON TEST: 720

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604667

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 188	TMT: 7	SEX: Male	DAY ON TEST: 723
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Pancreas
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Jejunum		Leiomyoma	
[Leiomyoma TGLs = 1-14]			
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Iliac	Chordoma	Metastatic (Uncertain Primary Site)
[Chordoma TGLs = 6-15]			
* Mammary Gland		Galactoceles	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-16]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 5-8]			
* Prostate		Inflammation	Moderate
* Seminal Vesicle		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 188	TMT: 7	SEX: Male	DAY ON TEST: 723
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604668

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-5]		
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Squamous Cell Papilloma	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Lymph Node Iliac Chordoma Uncertain Primary Site		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 189	TMT: 7	SEX: Male	DAY ON TEST: 713
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Infarct	Acute, Minimal
		Leukemia Mononuclear	
		Nephropathy	Minimal
[Infarct TGLs = 3-15]			
* Liver		Fatty Change	Marked
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLs = 2-14]			
[Leukemia Mononuclear TGLs = 1-6, 7]			
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Infiltration Cellular	Mild
[Infiltration Cellular TGLs = 6-17]			
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 189	TMT: 7	SEX: Male	DAY ON TEST: 713
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604669

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 5-16]		
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Inflammation	Minimal
* Testes		Adenoma	
	Bilateral, Interstit Cell		
[Adenoma	TGLs = 4-11]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 190	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
[Hepatodiaphragmatic Nodule	TGLs = 3-15]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-8]			
* Preputial Gland		Inflammation	Minimal
* Prostate		Inflammation	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 1-14]			
* Testes	Interstit Cell	Hyperplasia	Minimal
[Hyperplasia TGLs = 2-11]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 191	TMT: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Galactocoele	Minimal
		Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 192	TMT: 7	SEX: Male	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith [Alveolar/Bronchiolar Carcinoma TGLs = 3-3]	Hyperplasia	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-8]		
* Prostate		Inflammation	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-11]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 193	TMT: 7	SEX: Male	DAY ON TEST: 624
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Preputial Gland		Inflammation	Minimal
* Stomach, Forestomach		Fibrosis	Moderate
		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 194	TMT: 7 DOSE: 625 mg/l	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO: 0604674
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Eosinophilic Focus TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 195	TMT: 7	SEX: Male	DAY ON TEST: 551
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-15]		
* Testes	Interstit Cell	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 1-11]		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 196	TMT: 7	SEX: Male	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Preputial Gland		Inflammation	Moderate
[Inflammation TGLs = 1-15]			
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 2-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 197	TMT: 7	SEX: Male	DAY ON TEST: 628
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Adenoma	
[Adenoma TGLs = 1-14]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 198	TMT: 7	SEX: Male	DAY ON TEST: 543
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Pancreas

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-6, 7]		
* Lung	Perivascular	Hemorrhage	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 1-14]		
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 198

TMT: 7

SEX: Male

DAY ON TEST: 543

DOSE: 625 mg/l

DISP: Natural Death

HISTO: 0604678

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 199	TMT: 7	SEX: Male	DAY ON TEST: 696
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Prostate		Inflammation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLs = 1-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 200	TMT: 7	SEX: Male	DAY ON TEST: 649
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 6-9]		
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 5-4]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 8-16]		
* Nose		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 200	TMT: 7	SEX: Male	DAY ON TEST: 649
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604680

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 7-14]		
* Prostate		Inflammation	Mild
		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLs = 2-15]		
	[Necrosis TGLs = 4-15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-11]		
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 201	TMT: 2	SEX: Female	DAY ON TEST: 712
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
* Mammary Gland		Fibroadenoma	
		Galactoceles	Mild
		Hyperplasia	Mild
[Fibroadenoma TGLs = 1-13]			
[Hyperplasia TGLs = 2-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-14]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 202

TMT: 2

SEX: Female

DAY ON TEST: 514

DOSE: 0 mg/l

DISP: Natural Death

HISTO: 0604682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
* Ovary	Schwannoma Malignant	
[Schwannoma Malignant TGLs = 2-13]		
* Pituitary Gland	Pars Distalis	
[Hyperplasia TGLs = 1-8]	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Ovary Schwannoma Malignant

ANIMAL NUM: 203	TMT: 2	SEX: Female	DAY ON TEST: 644
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
[Basophilic Focus TGLs = 4-6]			
[Eosinophilic Focus TGLs = 4-7]			
[Fatty Change TGLs = 4-17]			
* Mammary Gland		Fibroadenoma	Multiple
		Galactoceles	Marked
		Hyperplasia	Minimal
[Fibroadenoma TGLs = 1-14, 2-15, 3-16]			
[Galactoceles TGLs = 2-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-13]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 204	TMT: 2 DOSE: 0 mg/l	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 0604684
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 3-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 205

TMT: 2

SEX: Female

DAY ON TEST: 715

DOSE: 0 mg/l

DISP: Natural Death

HISTO: 0604685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Brain	Compression	Moderate
* Eye	Cataract	Minimal
* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
* Mammary Gland	Fibroadenoma	Multiple
[Fibroadenoma TGLs = 2-14, 3-15]		
* Pituitary Gland	Adenoma	
[Adenoma TGLs = 1-13]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 206

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/l

DISP: Terminal Sacrifice

HISTO: 0604686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 2-14, 3-15]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 207	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLs = 4-16]			
[Eosinophilic Focus TGLs = 7-19]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Pancreatic	Ectasia	Moderate
[Ectasia TGLs = 3-15]			
* Mammary Gland		Fibroadenoma	
		Galactoceles	Minimal
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLs = 2-14, 6-18]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 5-17]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 208

TMT: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 mg/l

DISP: Natural Death

HISTO: 0604688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney		

OBSERVATIONS

* Brain		Compression	Moderate
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 209	TMT: 2	SEX: Female	DAY ON TEST: 488
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLs = 7-8]			
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Minimal
* Mammary Gland		Galactoceles	Moderate
[Galactoceles TGLs = 1-13, 2-14, 3-15, 4-16, 6-18]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-17]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 8-8]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 210	TMT: 2	SEX: Female	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Clitoral Gland		Inflammation	Minimal
* Harderian Gland		Inflammation	Granulomatous, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 1-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 2-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 211	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Eosinophilic Focus TGLs = 2-13]			
* Lung		Metaplasia	Squamous, Mild
* Nose	Nasolacrim Dct	Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
		Ulcer	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 1-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 212	TMT: 2	SEX: Female	DAY ON TEST: 700
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Minimal
		Nephropathy	Mild
[Nephropathy TGLs = 2-14]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-15]			
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 213	TMT: 2	SEX: Female	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Marked
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
[Fibrosis TGLs = 2-5]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLs = 3-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLs = 4-15]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 214	TMT: 2	SEX: Female	DAY ON TEST: 454
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Liver		Leukemia Mononuclear	
		Necrosis	Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-5]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 215	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Fibrosis	Moderate
	Papilla	Hemorrhage	Minimal
		Infarct	Moderate
	Pelvis	Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
[Infarct TGLs = 9-5]			
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-6, 7]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 8-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 215	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604695

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Carcinoma	
		Fibroadenoma	
	[Carcinoma TGLs = 3-14]		
	[Fibroadenoma TGLs = 2-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-8]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 4-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-5]		
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 216	TMT: 2	SEX: Female	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Fibrosis	Moderate
		Infarct	Moderate
	Pelvis	Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Infarct TGLs = 4-5]		
* Liver		Basophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 216

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/l

DISP: Terminal Sacrifice

HISTO: 0604696

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-15]

* Spleen

Leukemia Mononuclear

* Stomach, Forestomach

Hyperplasia

Squamous, Mild

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 217	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 2-14]			
* Pancreas		Infiltration Cellular	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 218	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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, Mesenteric	* Nose	* Ovary	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Mild
	Cornea	Inflammation	Chronic Active, Moderate
[Inflammation TGLs = 1-10]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 4-14, 5-15]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 218

TMT: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/l

DISP: Terminal Sacrifice

HISTO: 0604698

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear	TGLs = 2-13]	
* Thymus		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma
* Uterus		Polyp Stromal
[Polyp Stromal	TGLs = 6-11]	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 219	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic Active, Moderate
		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLs = 1-13]			
* Ovary		Cyst	Minimal
[Cyst TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 220	TMT: 2	SEX: Female	DAY ON TEST: 712
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 6-6, 7]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 3-15, 4-16]			
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 2-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-17]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 220	TMT: 2	SEX: Female	DAY ON TEST: 712
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604700

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Leukemia Mononuclear
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 221	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Mild
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Mild
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Moderate
[Nephropathy TGLs = 6-5]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLs = 4-16]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-17]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 221	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604701

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-15]		
* Thymus	Cyst	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 222

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/l

DISP: Terminal Sacrifice

HISTO: 0604702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	[Eosinophilic Focus TGLs = 3-15, 4-16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-17]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 223	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* 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
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye		Cataract	Minimal
	Cornea	Inflammation	Chronic Active, Mild
[Cataract TGLs = 1-10]			
* Harderian Gland		Inflammation	Chronic Active, Mild
* Heart	Artery	Cardiomyopathy	Mild
		Infiltration Cellular	Mononuclear CI, Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Vein	Basophilic Focus	
		Dilatation	Mild
[Dilatation TGLs = 4-6, 7, 15]			
* Mammary Gland		Fibroadenoma	
		Galactoceles	Minimal
[Fibroadenoma TGLs = 2-13]			
* Ovary		Cyst	Minimal
[Cyst TGLs = 3-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 5-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 224	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLs = 2-14]			
* Mammary Gland		Fibroadenoma	
		Galactoceles	Minimal
[Fibroadenoma TGLs = 1-13]			
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 225	TMT: 2	SEX: Female	DAY ON TEST: 509
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Brain		Compression	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 226

TMT: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/l

DISP: Terminal Sacrifice

HISTO: 0604706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* 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	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma	TGLs = 1-13, 2-14, 3-15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal	TGLs = 4-16, 5-17]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 227	TMT: 2 DOSE: 0 mg/l	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 0604707
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Marked
[Eosinophilic Focus TGLs = 4-6]			
[Fatty Change TGLs = 4-7, 16]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 2-14, 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Uterus	Cervix	Cyst	Mild
[Cyst TGLs = 5-17]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 228	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
[Eosinophilic Focus TGLs = 2-14]			
* Mammary Gland		Galactocoele	Minimal
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 229

TMT: 2

SEX: Female

DAY ON TEST: 531

DOSE: 0 mg/l

DISP: Moribund Sacrifice

HISTO: 0604709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-13]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 230	TMT: 2 DOSE: 0 mg/l	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 579 HISTO: 0604710
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Fibrosis	Minimal
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
	[Infarct TGLs = 2-5, 3-5]		
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 231

TMT: 2

SEX: Female

DAY ON TEST: 621

DOSE: 0 mg/l

DISP: Moribund Sacrifice

HISTO: 0604711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Leiomyosarcoma	Metastatic (Uterus)
* Kidney		Fibrosis	Mild
		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
[Infarct TGLs = 1-5]			
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leiomyosarcoma	Metastatic (Uterus)
* Uterus		Leiomyosarcoma	
[Leiomyosarcoma TGLs = 2-13, 14]			

PRIMARY CAUSE OF DEATH

- Uterus Leiomyosarcoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 232	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 2-14]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 3-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-13]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 233	TMT: 2	SEX: Female	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-8]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14, 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-17]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 234	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Vacuolization Cytoplasmic	Minimal
[Basophilic Focus TGLs = 3-15]			
[Eosinophilic Focus TGLs = 4-16, 5-17]			
* Lung		Foreign Body	Minimal
		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 6-18]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 2-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 235	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Mild
	[Adenoma TGLs = 3-15]		
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	Mild
	[Thrombosis TGLs = 13-24]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Fatty Change	Mild
		Leukemia Mononuclear	
		Regeneration	Mild
	[Leukemia Mononuclear TGLs = 9-6, 7]		
	[Regeneration TGLs = 8-20, 10-21]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-18]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 235	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604715

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-19]			
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Galactoceles	Mild
[Carcinoma TGLs = 1-13]			
[Fibroadenoma TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLs = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-17]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 12-23]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	
Vagina		Leukemia Mononuclear	
		Polyp	
[Leukemia Mononuclear TGLs = 11-22]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 236	TMT: 2	SEX: Female	DAY ON TEST: 608
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Necrosis	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-13]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 237	TMT: 2	SEX: Female	DAY ON TEST: 701
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Inflammation	Chronic Active, Minimal
* Intestine Small, Ileum		Inflammation	Chronic Active, Minimal
* Intestine Small, Jejunum		Inflammation	Chronic Active, Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Marked
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Galactocoele	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 1-13]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 06/18/2010

Time Report Requested: 14:00:13

First Dose M/F: 11/18/04 / 11/19/04

Lab: BAT

ANIMAL NUM: 237	TMT: 2	SEX: Female	DAY ON TEST: 701
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604717

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear	TGLs = 2-14]		
* Stomach, Glandular		Ulcer	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 238	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
[Adenoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 239	TMT: 2	SEX: Female	DAY ON TEST: 727
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Clitoral Gland		Sarcoma	
* Eye		Atrophy	Moderate
[Atrophy TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Minimal
		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
[Infarct TGLs = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 3-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 240	TMT: 2	SEX: Female	DAY ON TEST: 691
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal, Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-15, 2-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-16]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-13]		

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 240	TMT: 2	SEX: Female	DAY ON TEST: 691
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604720

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Moderate
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 6-17]			

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
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TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 241	TMT: 2	SEX: Female	DAY ON TEST: 682
	DOSE: 0 mg/l	DISP: Natural Death	HISTO: 0604721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 242	TMT: 2	SEX: Female	DAY ON TEST: 625
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 5-16]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pancreas		Infiltration Cellular	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 242

TMT: 2

SEX: Female

DAY ON TEST: 625

DOSE: 0 mg/l

DISP: Moribund Sacrifice

HISTO: 0604722

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hyperplasia TGLs = 6-17]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 3-15]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 243	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLs = 1-13]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Skin		Fibrosis	Minimal
Note: skin fibrosis really acrochordon			
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLs = 3-15]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Thymus		Hyperplasia	Lymphoid, Marked

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 244	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 3-7]		
* Mammary Gland		Fibroadenoma	
		Inflammation	Minimal
	[Fibroadenoma TGLs = 1-13]		
* Nose	Nasolacrim Dct	Foreign Body	Minimal
	Nasolacrim Dct	Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 4-8]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 2-11]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 245	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
[Hyperostosis TGLs = 4-13]			
* Brain		Glioma Benign	
[Glioma Benign TGLs = 5-9]			
* Harderian Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Vacuolization Cytoplasmic	Mild
[Fatty Change TGLs = 3-16]			
[Vacuolization Cytoplasmic TGLs = 2-15]			
* Pancreas		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLs = 1-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 245	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604725

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Polyp Stromal
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TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 246	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Congestion	Mild
		Eosinophilic Focus	
[Basophilic Focus TGLs = 4-6, 13]			
[Congestion TGLs = 1-14]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLs = 3-8]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 247	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* 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	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2-14, 3-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4-11]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 248	TMT: 2	SEX: Female	DAY ON TEST: 683
	DOSE: 0 mg/l	DISP: Moribund Sacrifice	HISTO: 0604728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Compression	Marked
* Clitoral Gland	Cyst	Mild
	Fibrosis	Mild
	Inflammation	Mild
[Fibrosis TGLs = 3-12]		
* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
[Basophilic Focus TGLs = 5-15]		
* Mammary Gland	Fibroadenoma	
[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]		
* Spleen	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 4-14]		
* Stomach, Forestomach	Fibrosis	Mild
	Hyperplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 249	TMT: 2	SEX: Female	DAY ON TEST: 729
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain		Compression	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
	[Adenoma TGLs = 2-12]		
* Heart		Cardiomyopathy	Mild
* Kidney		Degeneration	Fatty, Mild
		Nephropathy	Mild
	[Degeneration TGLs = 6-14]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 5-6, 7, 13]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-15]		
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-8]		
* Stomach, Forestomach		Inflammation	Minimal
* Uterus	Endometrium	Carcinoma	
	[Carcinoma TGLs = 4-11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 250	TMT: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 mg/l	DISP: Terminal Sacrifice	HISTO: 0604730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* 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	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 3-12]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLs = 5-6, 7, 14]			
[Eosinophilic Focus TGLs = 2-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Intermed	Hyperplasia	Minimal
[Hyperplasia TGLs = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 251	TMT: 4	SEX: Female	DAY ON TEST: 614
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 4-15]		
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 251	TMT: 4	SEX: Female	DAY ON TEST: 614
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604731

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-14]		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 2-13]		
* Trachea		Infiltration Cellular	Mixed Cell, Minimal
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
Vagina		Polyp	
[Polyp	TGLs = 5-16]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 252

TMT: 4

SEX: Female

DAY ON TEST: 706

DOSE: 156.25 mg/l

DISP: Moribund Sacrifice

HISTO: 0604732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLs = 5-17]			
* Lung	Alveolar Epith	Metaplasia	Squamous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14, 3-15, 4-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-18]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 253

TMT: 4

SEX: Female

DAY ON TEST: 531

DOSE: 156.25 mg/l

DISP: Natural Death

HISTO: 0604733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule	TGLs = 1-13]		
* Skin		Ulcer	Moderate
[Ulcer	TGLs = 2-14]		

PRIMARY CAUSE OF DEATH - Brain Inflammation

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 254	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Mild
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Moderate
	[Infarct TGLs = 6-5]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 5-17]		
* Mammary Gland		Fibroadenoma	Multiple
		Galactoceles	Minimal
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 2-14, 1-13]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 4-16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 255	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
Note: choristoma hair follicle			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLs = 4-16, 7-18]			
[Eosinophilic Focus TGLs = 5-17]			
[Hepatodiaphragmatic Nodule TGLs = 3-15]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-8]			
* Skin		Ulcer	Mild
[Ulcer TGLs = 1-13]			

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 256	TMT: 4	SEX: Female	DAY ON TEST: 616
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

AUTO PRECLUDES DIAG.			
* Intestine Large, Cecum		* Thyroid Gland	

OBSERVATIONS			
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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ANIMAL NUM: 257	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Fibrosis	Minimal
	Pelvis	Infarct	Mild
		Inflammation	Chronic Active, Marked
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
[Basophilic Focus TGLs = 8-6, 7, 16, 17, 6-16]			
[Eosinophilic Focus TGLs = 5-15]			
[Fatty Change TGLs = 8-15]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 2-13, 3-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-8]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 257	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604737

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 7-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 258	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland	Bilateral	Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Moderate
		Infarct	Moderate
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Moderate
[Infarct TGLs = 5-5, 6-5]			
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 2-14, 3-15, 4-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 259

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Amyloid Deposition	Mild
		Hyperplasia	Moderate
		Inflammation	Minimal
* Clitoral Gland		Cardiomyopathy	Moderate
* Heart		Nephropathy	Mild
* Kidney		Basophilic Focus	
* Liver		Congestion	Minimal
		Fatty Change	Focal, Moderate
		Fatty Change	Minimal
	[Congestion TGLs = 5-17]		
	[Fatty Change TGLs = 4-16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 6-18]		
* Thyroid Gland	Follicle	Cyst	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 3-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 260	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Carcinoma	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

ANIMAL NUM: 261	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Spleen		Leukemia Mononuclear	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 262

TMT: 4

SEX: Female

DAY ON TEST: 729

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLs = 2-6, 7, 14]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 5-3, 16]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLs = 3-8]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4-15]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 263	TMT: 4	SEX: Female	DAY ON TEST: 706
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 4-14]		
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 5-15]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 263	TMT: 4	SEX: Female	DAY ON TEST: 706
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604743

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 6-16]		
* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLs = 8-18]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 1-13, 2-13]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 264	TMT: 4	SEX: Female	DAY ON TEST: 712
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung	Leukemia Mononuclear	
* Mammary Gland	Fibroadenoma	Multiple
	Galactoceles	Moderate
[Fibroadenoma TGLs = 1-13, 5-15]		
[Galactoceles TGLs = 2-14]		
Mesentery	Fat	Necrosis
[Necrosis TGLs = 9-18]		
* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLs = 8-8]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-5]		
* Uterus	Polyp Stromal	
[Polyp Stromal TGLs = 6-16, 7-17]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 265	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
[Basophilic Focus TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLs = 3-15]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 4-16]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 266

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Moderate
[Fatty Change	TGLs = 3-15, 4-16]		
* Mammary Gland		Fibroadenoma	
[Fibroadenoma	TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal	TGLs = 2-14]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 267	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Fibrosis	Marked
	Pelvis	Infarct	Moderate
		Inflammation	Chronic Active, Moderate
		Nephropathy	Moderate
	[Fibrosis TGLs = 3-5]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 2-14]	Fatty Change	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 4-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 268	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 5-15, 6-16, 7-17]		
* Ovary		Atrophy	Moderate
		Granulosa Cell Tumor Benign	
	[Granulosa Cell Tumor Benign TGLs = 3-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 8-18]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 268	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604748

ORGAN AND ACCOUNTABLE SITE STATUS

	[Leukemia Mononuclear TGLs = 1-13]	
* Uterus		Polyp Stromal
	[Polyp Stromal TGLs = 4-14]	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 269	TMT: 4	SEX: Female	DAY ON TEST: 616
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
	Bile Duct		
	[Basophilic Focus TGLs = 4-15]		
	[Hepatodiaphragmatic Nodule TGLs = 3-14]		
* Lung	Serosa	Fibrosis	Minimal
Lymph Node	Mediastinal, Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-13, 8-18]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-17]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5-16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 269	TMT: 4	SEX: Female	DAY ON TEST: 616
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604749

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 6-8]			
* Spleen		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 270	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Clitoral Gland		Adenoma	
		Inflammation	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLs = 1-13]		
	[Eosinophilic Focus TGLs = 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 271	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLs = 2-14]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
[Eosinophilic Focus TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 4-16]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLs = 1-13]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 272	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Clitoral Gland		Inflammation	Marked
[Inflammation TGLs = 4-16]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Galactocoele	Mild
		Hyperplasia	Minimal
[Fibroadenoma TGLs = 2-14, 3-15]			
* Pancreas		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-8]			
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 272	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604752

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 1-13]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 273	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
[Basophilic Focus TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 274	TMT: 4	SEX: Female	DAY ON TEST: 642
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-18]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2-14, 3-15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 1-13]		

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 274	TMT: 4	SEX: Female	DAY ON TEST: 642
	DOSE: 156.25 mg/l	DISP: Natural Death	HISTO: 0604754

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-17]		
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
	[Ulcer TGLs = 10-20]		
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-19]		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 275	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic Active, Minimal
[Basophilic Focus TGLs = 4-16]			
[Fatty Change TGLs = 3-15, 5-17]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLs = 6-18]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 276	TMT: 4	SEX: Female	DAY ON TEST: 526
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Harderian Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Moderate
		Inflammation	Chronic Active, Mild
		Vacuolization Cytoplasmic	Mild
[Fatty Change TGLs = 1-13]			
* Mammary Gland		Galactocoele	Mild
		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 277

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Marked
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
[Fibrosis TGLs = 1-5]			
[Infarct TGLs = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node	Mediastinal	Ectasia	Mild
[Ectasia TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 278	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Intestine Small, Ileum		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 279	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Minimal
* Eye		Cataract	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Vein	Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLs = 3-6, 3-7, 3-14, 4-6, 4-7, 4-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLs = 6-8]			
[Angiectasis TGLs = 5-8]			
* Spleen		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 7-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 279	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604759

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hemorrhage	Mild
[Hemorrhage TGLs = 8-16]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 280	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	
[Polyp Stromal TGLs = 3-15]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 281	TMT: 4	SEX: Female	DAY ON TEST: 715
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Fibrosis	Moderate
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
	[Thrombosis TGLs = 4-14]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Mild
	[Metaplasia TGLs = 6-4]		
* Mammary Gland		Galactoceles	Mild
	[Galactoceles TGLs = 1-13]		
* Pituitary Gl			

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 281	TMT: 4	SEX: Female	DAY ON TEST: 715
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604761

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NO CORRELATING LESION TGL - 5.		
* Salivary Glands	Atrophy	Mild
* Spleen	Leukemia Mononuclear	
* Stomach, Forestomach	Ulcer	Moderate
[Ulcer TGLs = 7-6, 15]		
PRIMARY CAUSE OF DEATH	- Heart Atrium Thrombosis	
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 282	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 3-15]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 2-14]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 283

TMT: 4

SEX: Female

DAY ON TEST: 588

DOSE: 156.25 mg/l

DISP: Natural Death

HISTO: 0604763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Necrosis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 5-16]		
* Ovary		Cyst	Mild
	[Cyst TGLs = 3-11]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-15]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 2-14]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 284	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Fibrosis TGLs = 2-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Marked
		Fatty Change	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-6, 7]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-8]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 284	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604764

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 285

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLs = 3-15]		
	[Hepatodiaphragmatic Nodule TGLs = 2-14]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 286	TMT: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	Moderate
[Cyst TGLs = 3-12]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 7-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-5]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 6-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 287	TMT: 4	SEX: Female	DAY ON TEST: 727
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
[Adenoma TGLs = 4-14]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Mild
		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Mild
[Infarct TGLs = 2-5]			
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose		Foreign Body	Mild
		Inflammation	Mild
	Olfactory Epi	Metaplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 288	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLs = 6-17]			
[Eosinophilic Focus TGLs = 5-16]			
[Hepatodiaphragmatic Nodule TGLs = 4-16]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
Lymph Node	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLs = 7-18]			
* Mammary Gland		Galactoceles	Mild
* Ovary		Cyst	Mild
[Cyst TGLs = 2-14]			
* Pancreas		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 288

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604768

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 3-15]

ANIMAL NUM: 289	TMT: 4	SEX: Female	DAY ON TEST: 670
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hyperplasia	Mild
[Hyperplasia TGLs = 3-15, 4-15]			
* Mammary Gland		Fibroadenoma	Multiple
		Galactoceles	Minimal
		Hyperplasia	Minimal
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-16]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
------------------------	---

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 290

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Eye	Cornea	Hyperplasia	Minimal
	Antr Chamber	Inflammation	Suppurative, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Eosinophilic Focus TGLs = 5-17]		
	[Hepatodiaphragmatic Nodule TGLs = 5-17]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14, 3-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6-16]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4-16]		

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 291	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 292

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 156.25 mg/l

DISP: Terminal Sacrifice

HISTO: 0604772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Clitoral Gland	Duct	Dilatation	Marked
* Eye		Cataract	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
[Basophilic Focus TGLs = 5-17]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14, 3-15, 4-16]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-18]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 293	TMT: 4	SEX: Female	DAY ON TEST: 645
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
[Infarct TGLs = 2-5]			
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 294	TMT: 4	SEX: Female	DAY ON TEST: 706
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Pelvis	Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	[Clear Cell Focus TGLs = 4-15]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 5-16]		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 295	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Ovary		Granulosa Cell Tumor Benign	
[Granulosa Cell Tumor Benign	TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3-15]		
* Uterus	Cervix	Cyst	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
[Cyst	TGLs = 2-14]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 296	TMT: 4	SEX: Female	DAY ON TEST: 645
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		Necrosis	Mild
[Leukemia Mononuclear TGLs = 1-13]			
[Necrosis TGLs = 2-14]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 297	TMT: 4	SEX: Female	DAY ON TEST: 728
	DOSE: 156.25 mg/l	DISP: Terminal Sacrifice	HISTO: 0604777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule	TGLs = 5-17]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma	TGLs = 1-13]		
Mesentery	Fat	Necrosis	Mild
[Necrosis	TGLs = 4-16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia	TGLs = 2-14]		
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Inflammation	Suppurative, Marked
[Inflammation	TGLs = 3-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 298	TMT: 4	SEX: Female	DAY ON TEST: 474
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLs = 1-12]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Fatty Change	Focal, Moderate
		Inflammation	Chronic Active, Mild
[Fatty Change TGLs = 4-14]			
* Mammary Gland		Galactoceles	Mild
[Galactoceles TGLs = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-8]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 299	TMT: 4	SEX: Female	DAY ON TEST: 488
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Rectum	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Islets, Pancreatic	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Mesothelioma Malignant	
* Intestine Large, Colon		Mesothelioma Malignant	
* Intestine Small, Duodenum		Mesothelioma Malignant	
* Intestine Small, Ileum		Mesothelioma Malignant	
* Intestine Small, Jejunum		Mesothelioma Malignant	
* Kidney		Mesothelioma Malignant	
		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Marked
Lymph Node	Deep Cervical	Hemorrhage	Moderate
[Hemorrhage TGLs = 2-13]			
* Lymph Node, Mesenteric		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 3-14]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 6-17]			
* Nose		Inflammation	Minimal
* Ovary		Mesothelioma Malignant	
* Pancreas		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 4-15]			
Peritoneum		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 299	TMT: 4	SEX: Female	DAY ON TEST: 488
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604779

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skeletal Muscle		Mesothelioma Malignant	
[Mesothelioma Malignant	TGLs = 5-16]		
* Spleen		Mesothelioma Malignant	
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
* Urinary Bladder		Mesothelioma Malignant	
* Uterus		Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	- Peritoneum	Mesothelioma Malignant	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 300	TMT: 4	SEX: Female	DAY ON TEST: 526
	DOSE: 156.25 mg/l	DISP: Moribund Sacrifice	HISTO: 0604780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 2-14]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 301	TMT: 6	SEX: Female	DAY ON TEST: 691
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Adenoma	
	[Adenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 4-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 302	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Compression	Minimal
* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Eosinophilic Focus	
[Eosinophilic Focus TGLs = 2-14, 3-15]		
* Mammary Gland	Fibroadenoma	
[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 303	TMT: 6	SEX: Female	DAY ON TEST: 690
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLs = 3-15]			
* Lung		Inflammation	Suppurative, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Stomach, Forestomach		Fibrosis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 304	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Leukemia Mononuclear	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Mild
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 1-8]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
	[Hyperplasia TGLs = 2-6]		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 305	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
[Basophilic Focus TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Uterus	Endometrium	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 306	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3-15]		
	[Eosinophilic Focus TGLs = 4-16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 307	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Mild
* Clitoral Gland		Sarcoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLs = 5-17]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Leiomyosarcoma	
[Leiomyosarcoma TGLs = 4-16]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 308	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Minimal
		Leukemia Mononuclear	
		Nephropathy	Minimal
[Cyst TGLs = 6-17]			
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 3-15]			

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 308	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604788

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLs = 5-16]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 2-14]		
* Thymus		Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 309	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
	Serosa	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
[Fatty Change TGLs = 2-14]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Deep Cervical	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLs = 4-16]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 309	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604789

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Cervix	Cyst Polyp Stromal	Moderate
[Cyst TGLs = 3-15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 310	TMT: 6	SEX: Female	DAY ON TEST: 721
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Necrosis	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 310	TMT: 6	SEX: Female	DAY ON TEST: 721
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604790

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-14]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 311	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney	Papilla	Hemorrhage	Mild
		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLs = 3-15]		
	[Eosinophilic Focus TGLs = 4-16]		
	[Hepatodiaphragmatic Nodule TGLs = 2-14]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-17]		
* Thyroid Gland	Follicle	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 312	TMT: 6	SEX: Female	DAY ON TEST: 642
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Atypia Cellular	Mild
		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
	[Carcinoma TGLs = 3-15]		
	[Fibroadenoma TGLs = 1-13, 2-14]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5-17]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-16]		
* Skin		Ulcer	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 313	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLs = 2-14]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 3-14]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 314	TMT: 6	SEX: Female	DAY ON TEST: 676
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Minimal
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Spleen		Angiectasis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-13, 3-14, 4-15, 5-16]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 314

TMT: 6

SEX: Female

DAY ON TEST: 676

DOSE: 312.5 mg/l

DISP: Moribund Sacrifice

HISTO: 0604794

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 315	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604795

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLs = 8-20]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[Polyp Stromal TGLs = 1-13]		Polyp Stromal	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 316	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Mild
[Adenoma TGLs = 2-12]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLs = 4-14, 5-15]			
[Eosinophilic Focus TGLs = 6-16]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 7-8]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 3-11]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 317	TMT: 6	SEX: Female	DAY ON TEST: 526
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Fibrosis	Moderate
	Papilla	Hemorrhage	Minimal
		Infarct	Moderate
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Mild
	[Infarct TGLs = 1-5]		
* Lymph Node, Mesenteric		Infiltration Cellular	Mast Cell, Minimal
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Degeneration	Cystic, Focal, Minimal
Note: no code for splenic cyst			
	[Degeneration TGLs = 2-13]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 318	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLs = 2-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 3-14, 4-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-16]			
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 1-13]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 319	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Moderate
* Clitoral Gland		Adenoma	
		Cyst	Mild
		Hyperplasia	Mild
[Adenoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLs = 2-14]			
[Eosinophilic Focus TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 320	TMT: 6	SEX: Female	DAY ON TEST: 603
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Marked
	[Fibrosis TGLs = 1-5, 2-5]		
* Liver		Basophilic Focus	
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Kidney Fibrosis

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 321	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Minimal
* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Eosinophilic Focus	
[Basophilic Focus TGLs = 4-16]		
* Mammary Gland	Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14, 3-15]		
* Pituitary Gland	Pars Distalis	Hyperplasia
		Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 322

TMT: 6

SEX: Female

DAY ON TEST: 729

DOSE: 312.5 mg/l

DISP: Terminal Sacrifice

HISTO: 0604802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Kidney	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 323	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Moderate
		Inflammation	Mild
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Jejunum		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Moderate
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 2-6, 7, 14]		
	[Fatty Change TGLs = 2-14]		
* Lung	Bronchiole	Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Inflammation TGLs = 3-3, 4]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 4-8]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 323	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604803

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 324	TMT: 6	SEX: Female	DAY ON TEST: 582
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Stomach, Glandular		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
[Fibrosis TGLs = 2-5]			
[Inflammation TGLs = 2-5, 3-5]			
* Liver		Basophilic Focus	
		Fatty Change	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Ulcer	Mild
* Thyroid Gland		Carcinoma	
[Carcinoma TGLs = 1-13]			

PRIMARY CAUSE OF DEATH - Kidney Pelvis Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 325	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLs = 1-10]		
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 3-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-15]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 325	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604805

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-13]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 326	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Hemangiosarcoma	Metastatic (Skin)
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Inflammation	Chronic Active, Minimal
[Hemangiosarcoma TGLs = 4-15, 5-16]			
[Inflammation TGLs = 6-17]			
Lymph Node	Deep Cervical	Ectasia	Moderate
[Ectasia TGLs = 3-14]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
[Hyperplasia TGLs = 7-18]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLs = 1-19]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 327	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLs = 2-13]			
* Eye		Cataract	Marked
	Retina	Degeneration	Moderate
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Marked
	Papilla	Hemorrhage	Minimal
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Moderate
[Fibrosis TGLs = 3-5]			
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 328	TMT: 6	SEX: Female	DAY ON TEST: 666
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Sarcoma	Metastatic (Uncertain Primary Site)
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Fatty Change	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Inflammation	Suppurative, Minimal
Mesentery		Sarcoma	Metastatic (Uncertain Primary Site)
[Sarcoma TGLs = 3-15, 4-16, 5-17]			
* Nose		Foreign Body	Moderate
		Inflammation	Moderate
* Pancreas		Sarcoma	Metastatic (Uncertain Primary Site)
* Pituitary Gland		Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
[Cyst TGLs = 6-18]			
* Salivary Glands		Atrophy	Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 328	TMT: 6	SEX: Female	DAY ON TEST: 666
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604808

ORGAN AND ACCOUNTABLE SITE STATUS

	Cervix	Sarcoma	Metastatic (Uncertain Primary Site)
[Polyp Stromal TGLs = 2-14]			
[Sarcoma TGLs = 1-13]			
PRIMARY CAUSE OF DEATH	- Uterus Cervix Sarcoma Uncertain Primary Site		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 329	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			
* Spleen		Leukemia Mononuclear	
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 2-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 330	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* 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, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 5-16]		
	[Hepatodiaphragmatic Nodule TGLs = 6-17]		
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-18]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 8-8]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 330	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604810

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 2-14]		
* Stomach, Forestomach	Fibrosis	Minimal
	Hyperplasia	Squamous, Minimal
* Uterus	Polyp Stromal	
[Polyp Stromal TGLs = 3-15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 331	TMT: 6	SEX: Female	DAY ON TEST: 579
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
		Ulcer	Moderate

[Fibroma TGLs = 1-13]

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 332	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Infarct	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLs = 3-15]		
	[Eosinophilic Focus TGLs = 2-14]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 4-16]		
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 333	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 334	TMT: 6	SEX: Female	DAY ON TEST: 670
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	Mild
		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Spleen		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 3-15]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLs = 1-13]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 335	TMT: 6	SEX: Female	DAY ON TEST: 683
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign	TGLs = 3-15]		
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma	TGLs = 2-14]		
Zymbal's Gland		Carcinoma	
[Carcinoma	TGLs = 1-13]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 336	TMT: 6	SEX: Female	DAY ON TEST: 691
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Fibrosis	Moderate
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLs = 3-5]		
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung	Alveolar Epith	Hyperplasia	Marked
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-13]		
* Stomach, Forestomach		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 336	TMT: 6	SEX: Female	DAY ON TEST: 691
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604816

ORGAN AND ACCOUNTABLE SITE STATUS

	Hyperplasia	Squamous, Marked
	Inflammation	Mild
	Ulcer	Moderate
* Stomach, Glandular	Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 337	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Clitoral Gland		Fibrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Skin		Hyperplasia	Squamous, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 338	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 339

TMT: 6

SEX: Female

DAY ON TEST: 527

DOSE: 312.5 mg/l

DISP: Natural Death

HISTO: 0604819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Eye	Cataract	Minimal
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Leukemia Mononuclear	
* Lung	Leukemia Mononuclear	
Mesentery	Necrosis	Mild
[Necrosis TGLs = 3-14]	Fat	
* Pituitary Gland	Pars Distalis	
[Adenoma TGLs = 1-13]	Adenoma	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-5]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 340	TMT: 6	SEX: Female	DAY ON TEST: 701
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
* Eye		Cataract	Marked
	Cornea	Inflammation	Chronic Active, Marked
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 2-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-13]		
* Stomach, Forestomach		Edema	Mild
		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 340	TMT: 6	SEX: Female	DAY ON TEST: 701
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604820

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Polyp Stromal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 341	TMT: 6	SEX: Female	DAY ON TEST: 677
	DOSE: 312.5 mg/l	DISP: Natural Death	HISTO: 0604821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Marked
	Papilla	Hemorrhage	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Moderate
[Fibrosis TGLs = 1-5, 2-5]			
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
Oral Mucosa	Gingival	Foreign Body	Mild
	Gingival	Inflammation	Chronic Active, Mild
		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 3-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Fibrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 341

TMT: 6

SEX: Female

DAY ON TEST: 677

DOSE: 312.5 mg/l

DISP: Natural Death

HISTO: 0604821

ORGAN AND ACCOUNTABLE SITE STATUS

- Kidney Papilla Hemorrhage
 - Oral Mucosa Squamous Cell Papilloma
-

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 06/18/2010

Time Report Requested: 14:00:13

First Dose M/F: 11/18/04 / 11/19/04

Lab: BAT

ANIMAL NUM: 342

TMT: 6

SEX: Female

DAY ON TEST: 727

DOSE: 312.5 mg/l

DISP: Terminal Sacrifice

HISTO: 0604822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

Organ	Location	Pathology	Severity
* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Marked
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Moderate
	Pelvis	Metaplasia	Squamous, Marked
		Nephropathy	Marked
		[Fibrosis TGLs = 1-5]	
		[Infarct TGLs = 2-5]	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		[Basophilic Focus TGLs = 3-14]	
		[Hepatodiaphragmatic Nodule TGLs = 4-13]	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Marked
		[Alveolar/Bronchiolar Adenoma TGLs = 5-4]	
* Lymph Node, Mesenteric		Ectasia	Mild
		[Ectasia TGLs = 6-6]	
* Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 342	TMT: 6	SEX: Female	DAY ON TEST: 727
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604822

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 343	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Carcinoma	
[Carcinoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
[Basophilic Focus TGLs = 2-14]			
[Eosinophilic Focus TGLs = 4-16]			
[Fatty Change TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-17]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 344	TMT: 6	SEX: Female	DAY ON TEST: 666
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Cyst	Mild
		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Fibrosis TGLs = 3-5]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-6, 7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 4-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL NUM: 344	TMT: 6	SEX: Female	DAY ON TEST: 666
	DOSE: 312.5 mg/l	DISP: Moribund Sacrifice	HISTO: 0604824

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear
[Hyperplasia TGLs = 5-15]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 2-13]		
* Thyroid Gland	Bilateral, C Cell	Adenoma
* Urinary Bladder		Leukemia Mononuclear
* Uterus		Polyp Stromal
[Polyp Stromal TGLs = 6-16]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 345	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
	Endocardium	Hyperplasia	Moderate
* Intestine Large, Rectum		Inflammation	Chronic Active, Minimal
		Parasite Metazoan	Mild
* Kidney	Papilla	Hemorrhage	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-6, 7]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-8]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 346	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* 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, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Marked
		Fatty Change	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6, 7]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLs = 5-16]		
* Lymph Node, Mesenteric		Infiltration Cellular	Mononuclear Cl, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 2-14, 3-15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6-17]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 346	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604826

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibrosarcoma
[Fibrosarcoma TGLs = 1-13]		
* Spleen		Leukemia Mononuclear
* Thymus		Leukemia Mononuclear
* Uterus		Polyp Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 347	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Inflammation	Granulomatous, Mild
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
	[Adenoma TGLs = 1-13]		
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Nose		Foreign Body	Mild
		Inflammation	Mild
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLs = 4-16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 348	TMT: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLs = 4-6, 7, 15]			
[Eosinophilic Focus TGLs = 4-7, 15]			
Lymph Node	Mediastinal	Infiltration Cellular	Mixed Cell, Mild
[Infiltration Cellular TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 1-13]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 349	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Fatty Change	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-8]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 350	TMT: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 312.5 mg/l	DISP: Terminal Sacrifice	HISTO: 0604830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Ovary		Granulosa Cell Tumor Benign	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Uterus	Cervix	Cyst	Mild
[Cyst TGLs = 2-14]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 351	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6, 7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-15, 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 352	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Jejunum		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 3-6, 3-7, 3-17, 4-16]	Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 3-17]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2-15]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 1-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Lip	Inflammation	Suppurative, Minimal
	[Inflammation TGLs = 5-13]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 353	TMT: 8	SEX: Female	DAY ON TEST: 666
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Brain		Compression	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
[Basophilic Focus TGLs = 3-14, 4-14, 6-14]			
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Mild
[Galactoceles TGLs = 1-13]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-8]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 354	TMT: 8	SEX: Female	DAY ON TEST: 579
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6, 7]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 355	TMT: 8	SEX: Female	DAY ON TEST: 598
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Thymus
* Trachea	* Urinary Bladder	* Uterus	Zymbal's Gland

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Jejunum

OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Mild
* Heart		Mineralization	Marked
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Minimal
		Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLs = 1-5]			
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLs = 2-13]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 355

TMT: 8

SEX: Female

DAY ON TEST: 598

DOSE: 625 mg/l

DISP: Natural Death

HISTO: 0604835

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 356	TMT: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Eye		Cataract	Mild
	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLs = 4-16, 17]		
	[Clear Cell Focus TGLs = 4-16, 17]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-14]		
* Thymus		Inflammation	Suppurative, Moderate
		Lymphoma Malignant	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 3-15]		

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 357	TMT: 8	SEX: Female	DAY ON TEST: 685
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Eye	Antr Chamber	Inflammation	Suppurative, Mild
* Heart		Cardiomyopathy	Moderate
		Mineralization	Marked
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Marked
		Mineralization	Moderate
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Fatty Change	Minimal
* Lung		Thrombosis	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 1-13]			
* Spleen		Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Stomach, Glandular		Mineralization	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 358	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLs = 1-13, 14]			
* Parathyroid Gland		Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 359	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* 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, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLs = 3-15]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLs = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-14]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 360	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
[Basophilic Focus TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 5-16]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 4-11]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 361	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Intestine Small, Ileum		Parasite Metazoan	Minimal
* Kidney		Fibrosis	Marked
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
	[Fibrosis TGLs = 2-5]		
	[Infarct TGLs = 1-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLs = 4-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-8]		
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 362	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Dilatation	Minimal
		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
	[Dilatation TGLs = 4-5, 14]		
	[Nephropathy TGLs = 3-5]		
* Liver		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
		Carcinoma	Metastatic (Thyroid Gland)
	[Alveolar/Bronchiolar Adenoma TGLs = 6-15]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 1-13]		
Mesentery		Fibrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-8]		
* Thymus		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 362	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604842

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland [Carcinoma TGLs = 5-8]	C Cell	Carcinoma
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TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 363	TMT: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Minimal
[Basophilic Focus TGLs = 2-6, 7, 13]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 364

TMT: 8

SEX: Female

DAY ON TEST: 540

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLs = 2-14]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 365	TMT: 8	SEX: Female	DAY ON TEST: 632
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
	[Hemorrhage TGLs = 4-16, 5-17]	Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 365	TMT: 8	SEX: Female	DAY ON TEST: 632
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604845

ORGAN AND ACCOUNTABLE SITE STATUS

		Necrosis	Mild
	[Leukemia Mononuclear TGLs = 2-14]		
	[Necrosis TGLs = 3-15]		
* Uterus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 366	TMT: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Minimal
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLs = 1-10]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 2-6, 7, 13]		
* Pancreas		Infiltration Cellular	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-8]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4-14]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 367	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* 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
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
[Basophilic Focus TGLs = 2-14]			
* Mammary Gland		Galactocoele	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 368	TMT: 8	SEX: Female	DAY ON TEST: 719
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* 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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Carcinoma	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Metaplasia	Squamous, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 369	TMT: 8	SEX: Female	DAY ON TEST: 527
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Ovary		Atrophy	Moderate
		Granulosa-Theca Tumor Malignant	
[Granulosa-Theca Tumor Malignant TGLs = 1-13]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Ovary Granulosa-Theca Tumor Malignant

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 370	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
Note: NO CORRELATING LESION TGL - 2.			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 371	TMT: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain		Compression	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
[Basophilic Focus TGLs = 3-6, 7, 13]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLs = 2-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 372	TMT: 8	SEX: Female	DAY ON TEST: 656
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Brain		Compression	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Ovary		Cyst	Minimal
[Cyst TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-15]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 373	TMT: 8	SEX: Female	DAY ON TEST: 719
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Congestion	Minimal
		Fatty Change	Minimal
	Serosa	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
[Congestion TGLs = 2-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Plasma Cell, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLs = 1-15, 4-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-8]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 374	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Infarct	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
[Basophilic Focus TGLs = 1-6, 7, 13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 2-14]			
* Skin	Subcut Tiss	Sarcoma	
* Spleen		Leukemia Mononuclear	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 375	TMT: 8	SEX: Female	DAY ON TEST: 515
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Fibrosis	Mild
		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6, 7]		
* Lung		Leukemia Mononuclear	
* Nose	Turbinate	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 375	TMT: 8	SEX: Female	DAY ON TEST: 515
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604855

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 1-13]	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 376	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Fibrosis	Mild
		Inflammation	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLs = 4-7, 5-6]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 3-13]			
* Ovary		Cyst	Mild
[Cyst TGLs = 1-11]			
* Pituitary Gland	Pars Nervosa	Craniopharyngioma	
	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 6-8]			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLs = 2-14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 377	TMT: 8	SEX: Female	DAY ON TEST: 607
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Mild
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	
Vagina		Polyp	
[Polyp TGLs = 1-13]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 378	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLs = 4-15, 5-16]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus	Cervix	Cyst	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[Cyst TGLs = 2-14]			
[Hyperplasia TGLs = 3-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 379

TMT: 8

SEX: Female

DAY ON TEST: 589

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 2-14]			
Vagina		Polyp	
[Polyp TGLs = 1-13]			

PRIMARY CAUSE OF DEATH - Vagina Polyp

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 380	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Cyst	Moderate
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Moderate
	Papilla	Hemorrhage	Mild
	Pelvis	Inflammation	Chronic Active, Marked
		Nephropathy	Marked
[Fibrosis TGLs = 1-13]			
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 381	TMT: 8	SEX: Female	DAY ON TEST: 700
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Hyperplasia	Moderate
		Inflammation	Mild
* Heart		Cardiomyopathy	Marked
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1-13, 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 4-16]			
* Stomach, Forestomach		Fibrosis	Moderate
		Hyperplasia	Squamous, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 3-15]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 382

TMT: 8

SEX: Female

DAY ON TEST: 551

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Fatty Change	Focal, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 383	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
[Adenoma TGLs = 2-13]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Fatty Change	Mild
		Fatty Change	Focal, Marked
		Leukemia Mononuclear	
[Fatty Change TGLs = 3-6, 7]			
[Leukemia Mononuclear TGLs = 1-6, 7]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Mammary Gland		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 384	TMT: 8	SEX: Female	DAY ON TEST: 684
	DOSE: 625 mg/l	DISP: Natural Death	HISTO: 0604864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Bone		Osteosarcoma	
	[Osteosarcoma TGLs = 2-13]		
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Serosa	Fibrosis	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 385	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Clitoral Gland	Carcinoma	
	Inflammation	Moderate
[Carcinoma TGLs = 1-13]		
* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Mixed Cell Focus	
[Basophilic Focus TGLs = 2-6, 7, 14]		
* Pituitary Gland	Pars Distalis	Adenoma

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 386	TMT: 8	SEX: Female	DAY ON TEST: 693
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Cyst	Moderate
		Inflammation	Chronic Active, Moderate
	[Cyst TGLs = 5-13]		
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1-14]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Fatty Change	Focal, Moderate
	[Fatty Change TGLs = 4-17]		
	[Fatty Change TGLs = 2-15]		
Oral Mucosa	Gingival	Foreign Body	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH - Bone Cyst

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 387	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Fibrosis	Mild
		Infarct	Moderate
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Uterus	Cervix	Cyst	Moderate
[Cyst TGLs = 2-14]			

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 388	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[Adenoma TGLs = 5-8]			
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLs = 6-16]			
[Eosinophilic Focus TGLs = 6-16, 7-17, 8-18, 9-19]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 4-15]			
* Thyroid Gland		Carcinoma	
[Carcinoma TGLs = 3-8]			
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 2-14]			

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 389	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Eye		Cataract	Marked
	Retina	Degeneration	Moderate
[Cataract TGLs = 1-10]			
* Heart		Cardiomyopathy	Marked
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLs = 3-14]			
[Eosinophilic Focus TGLs = 3-14]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-13]			
* Nose	Turbinate	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 390	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLs = 3-15]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-13, 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 4-16]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 391	TMT: 8	SEX: Female	DAY ON TEST: 695
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Vein	Dilatation	Mild
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
[Dilatation TGLs = 2-14]			
* Mammary Gland		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

ANIMAL NUM: 392	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 2-14]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 1-13]		

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 393	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-6, 7]		
* Lung	Serosa	Fibrosis	Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 5-17]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 3-15, 4-16]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 6-18]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-8]		
* Skin		Ulcer	Mild
	[Ulcer TGLs = 1-13, 2-14]		
* Spleen		Leukemia Mononuclear	
* Thymus		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 393	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604873

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Moderate
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* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 394	TMT: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Fibrosis	Mild
		Infarct	Minimal
	Pelvis	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	[Nephropathy TGLs = 4-5, 16]		
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
	[Basophilic Focus TGLs = 3-15]		
	[Fatty Change TGLs = 2-14]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-13]		
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

ANIMAL NUM: 395	TMT: 8	SEX: Female	DAY ON TEST: 474
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING			
* Lymph Node, Mandibular			

OBSERVATIONS			
* Brain		Compression	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
* Mammary Gland		Adenoma	
		Galactoceles	Mild
[Adenoma TGLs = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-13]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 396	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Histiocytic Sarcoma	
		Mixed Cell Focus	
[Basophilic Focus TGLs = 7-18]			
* Lung		Fibrosis	Mild
		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 8-19]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1-13]			
* Spleen		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 3-14, 4-15, 5-16]			
* Uterus	Cervix	Cyst	Mild
[Cyst TGLs = 6-17]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 397	TMT: 8	SEX: Female	DAY ON TEST: 638
	DOSE: 625 mg/l	DISP: Moribund Sacrifice	HISTO: 0604877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Fibrosis	Marked
	Pelvis	Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
		Nephropathy	Marked
[Fibrosis TGLs = 2-5, 3-5]			
* Liver		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 4-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1-13]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 397

TMT: 8

SEX: Female

DAY ON TEST: 638

DOSE: 625 mg/l

DISP: Moribund Sacrifice

HISTO: 0604877

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Kidney Fibrosis

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 398	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain		Compression	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Moderate
[Adenoma TGLs = 1-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLs = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-14]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 06/18/2010
 Time Report Requested: 14:00:13
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

ANIMAL NUM: 399	TMT: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Serosa	Fibrosis	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 2-14]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 06/18/2010
Time Report Requested: 14:00:13
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

ANIMAL NUM: 400	TMT: 8	SEX: Female	DAY ON TEST: 728
	DOSE: 625 mg/l	DISP: Terminal Sacrifice	HISTO: 0604880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
Oral Mucosa		Squamous Cell Papilloma	
[Squamous Cell Papilloma	TGLs = 2-1]		
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 1-13]		
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

*** END OF REPORT ***