

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

C Number:	C20009
Lock Date:	07/30/2004
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406649

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 | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|--------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | Medulla | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406650

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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406651

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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406652

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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis	Mesothelium	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
		Nephropathy	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406653

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 | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|-------------------|--------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | Coagulating Gland | * 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 |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| | | Inflammation | Granulomatous, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406655

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 | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--------------|----------------------------------|-------------------------|
| * Epididymis | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | Medulla | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Infiltration Cellular | Lymphocyte, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 93
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 0406656

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 |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|-------------------------|--|------------------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule
Medulla | Accumulation, Hyaline Droplet
Mineralization
Nephropathy | Mild
Minimal
Minimal |
| * Liver | | Hematopoietic Cell Proliferation
Inflammation | Minimal
Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| Mesentery | | Inflammation | Chronic Active, Minimal |
| Note: The mesentery is attached to the capsule of the spleen | | | |
| * Pancreas | | Infiltration Cellular | Lymphocyte, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406657

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
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose		Inflammation	Suppurative, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406658

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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Pituitary Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 11

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406659

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406660

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 13	TRT#: 3	SEX: Male	DAY ON TEST: 93
	DOSE: 78 MG/L	DISP: Terminal Sacrifice	HISTO: 0406661
OBSERVATIONS			
Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-13]			
<hr/>			
PRIMARY CAUSE OF DEATH	-		
<hr/>			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 14

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406662

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406663

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 16

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406664

OBSERVATIONS

Kidney

Renal Tubule
Medulla

Accumulation, Hyaline Droplet
Mineralization
Nephropathy

Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 17

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406665

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Mild

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 18

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406666

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 19

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406667

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406668

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 21

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406669

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 22

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406670

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Mild

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 23

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406671

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 24

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406672

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 25	TRT#: 5 DOSE: 156 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406673
OBSERVATIONS Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 26

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406674

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 27

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406675

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 28	TRT#: 5 DOSE: 156 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406676
OBSERVATIONS Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 29

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406677

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 30

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406678

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Mild

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 31	TRT#: 7 DOSE: 312 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406679
OBSERVATIONS			
Kidney	Renal Tubule Medulla	Accumulation, Hyaline Droplet Mineralization Nephropathy	Minimal Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406680

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 33

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406681

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 34	TRT#: 7 DOSE: 312 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406682
OBSERVATIONS Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406683

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 36

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406684

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 37	TRT#: 7 DOSE: 312 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406685
OBSERVATIONS Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Mild Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 38

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406686

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406687

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406688

OBSERVATIONS

Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406689

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 42

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406690

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406691

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 44

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406692

OBSERVATIONS

* Kidney

Renal Tubule
Medulla

Accumulation, Hyaline Droplet
Mineralization
Nephropathy

Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 45

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406693

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406694

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 47	TRT#: 9 DOSE: 625 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406695
OBSERVATIONS * Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Minimal Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 48	TRT#: 9 DOSE: 625 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406696
OBSERVATIONS * Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Minimal Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 49

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406697

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet
Nephropathy

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406698

OBSERVATIONS

* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Minimal

Medulla

Mineralization

Minimal

Nephropathy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406699

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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406700

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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Medulla	Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406701

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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	Pleura
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	Tooth	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Medulla	Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Renal Tubule	Pigmentation	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406702

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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Glandular	Glands	Ectasia	Minimal
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406703

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
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule Medulla	Accumulation, Hyaline Droplet Mineralization Nephropathy	Mild Minimal Moderate
* Liver		Hematopoietic Cell Proliferation Inflammation	Minimal Chronic Active, Mild
* Lung		Inflammation Metaplasia	Chronic Active, Minimal Osseous, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406704

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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Thyroid Gland		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 57

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406705

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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Medulla	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Medulla	Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone	Cartilage	Atypia Cellular	Minimal
Coagulating Gland		Inflammation	Chronic Active, Minimal
* Epididymis	Epithelium	Degeneration	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Medulla	Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Tunic	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406708

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 | * Pancreas |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | Tooth |
| * Trachea | | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|--|--------------|----------------------------------|-------------------------|
| * Epididymis | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Eye | | | |
| Note: Both optic nerves are missing, tissue not examined | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | Medulla | Mineralization | Minimal |
| | | Nephropathy | Moderate |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |
| * Urinary Bladder | | Infiltration Cellular | Mononuclear CI, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406709

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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Interstitium	Infiltration Cellular	Mononuclear CI, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 62 TRT#: 2 SEX: Female DAY ON TEST: 93
DOSE: 0 MG/L DISP: Terminal Sacrifice HISTO: 0406710

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	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
* Nose	Olfactory Epi	Foreign Body	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 63

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 0406711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Infiltration Cellular	Mixed Cell, Minimal
Oviduct		Infiltration Cellular	Mixed Cell, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Mild
* Urinary Bladder		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 65

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye

Note: Both optic nerves missing. Tissue not examined.

* Harderian Gland

* Heart

* Kidney

* Liver

Infiltration Cellular

Cardiomyopathy

Nephropathy

Hepatodiaphragmatic Nodule

Inflammation

Mononuclear CI, Minimal

Minimal

Minimal

Chronic Active, Minimal

[Hepatodiaphragmatic Nodule TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 66

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406714

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	* Parathyroid Gland	* Pituitary 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	Renal Tubule	Crystals	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 67

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 0406715

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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Trachea
--------------------------	-----------

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Pancreas	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 68

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Harderian Gland		Metaplasia	Squamous, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
		Metaplasia	Osseous, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|-------------------|---------|-----------------------|-------------------------|
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Harderian Gland | | Inflammation | Chronic Active, Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Capsule | Inflammation | Chronic Active, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | | Metaplasia | Osseous, Minimal |
| * Pancreas | | Infiltration Cellular | Lymphocyte, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 0406718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hematopoietic Cell Proliferation	Minimal
	Inflammation	Chronic Active, Minimal
* Pancreas	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406719

OBSERVATIONS

Kidney
Liver

Nephropathy
Hepatodiaphragmatic Nodule
Inflammation

Minimal

Chronic Active, Mild

[Hepatodiaphragmatic Nodule TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406720

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406721

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406722

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 75	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 78 MG/L	DISP: Terminal Sacrifice	HISTO: 0406723
OBSERVATIONS			
Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 76

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406724

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 77

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 78 MG/L

DISP: Terminal Sacrifice

HISTO: 0406725

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 78	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 78 MG/L	DISP: Terminal Sacrifice	HISTO: 0406726
OBSERVATIONS			
Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Mild
<hr/>			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 79	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 78 MG/L	DISP: Terminal Sacrifice	HISTO: 0406727
OBSERVATIONS			
Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
<hr/>			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 80	TRT#: 4	SEX: Female	DAY ON TEST: 93
	DOSE: 78 MG/L	DISP: Terminal Sacrifice	HISTO: 0406728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Liver

OBSERVATIONS

Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 81

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

OBSERVATIONS

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406730

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 83	TRT#: 6 DOSE: 156 MG/L	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406731
OBSERVATIONS			
Kidney	Medulla	Mineralization Nephropathy Inflammation	Minimal Minimal Chronic Active, Minimal
Liver			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 84

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406732

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 85

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406733

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 86	TRT#: 6 DOSE: 156 MG/L	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406734
OBSERVATIONS			
Kidney	Medulla	Mineralization Nephropathy Inflammation	Minimal Minimal Chronic Active, Mild
Liver			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 87	TRT#: 6 DOSE: 156 MG/L	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406735
OBSERVATIONS			
Kidney	Medulla	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 88

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

OBSERVATIONS

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 89

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406737

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 90

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 156 MG/L

DISP: Terminal Sacrifice

HISTO: 0406738

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 91	TRT#: 8 DOSE: 312 MG/L	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 93 HISTO: 0406739
OBSERVATIONS			
Kidney	Medulla	Mineralization Nephropathy Inflammation	Minimal Minimal Chronic Active, Minimal
Liver			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 92

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406740

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 93

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406741

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 94

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Liver

OBSERVATIONS

Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406743

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 96

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

OBSERVATIONS

Liver

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 97

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

OBSERVATIONS

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 98

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406746

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 99

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406747

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 100

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 312 MG/L

DISP: Terminal Sacrifice

HISTO: 0406748

OBSERVATIONS

Kidney

Medulla

Mineralization

Minimal

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 101

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406749

OBSERVATIONS

* Kidney
Liver

Medulla

Mineralization
Inflammation

Minimal
Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 102

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406750

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 103

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406751

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406752

OBSERVATIONS

* Kidney

Medulla

Mineralization

Minimal

Liver

Nephropathy

Minimal

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 105	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 625 MG/L	DISP: Terminal Sacrifice	HISTO: 0406753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Liver

OBSERVATIONS

* Kidney	Cortex	Angiectasis	Mild
		Nephropathy	Minimal
Mesentery	Fat	Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 106

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406754

OBSERVATIONS

* Kidney

Medulla

Mineralization

Minimal

Liver

Nephropathy

Minimal

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 107

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406755

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 108	TRT#: 10	SEX: Female	DAY ON TEST: 93
	DOSE: 625 MG/L	DISP: Terminal Sacrifice	HISTO: 0406756
OBSERVATIONS			
* Kidney	Medulla	Mineralization	Minimal
Liver		Nephropathy	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-6]	Hepatodiaphragmatic Nodule	
<hr/>			
PRIMARY CAUSE OF DEATH	-		
<hr/>			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406757

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Liver

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 110

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 625 MG/L

DISP: Terminal Sacrifice

HISTO: 0406758

OBSERVATIONS

* Kidney

Nephropathy

Minimal

Liver

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 111

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406759

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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Mild
[Hepatodiaphragmatic Nodule TGLS = 1-14]			
* Pancreas	Acinus	Atrophy	Mild
		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 113

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406761

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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Papilla	Casts Granular	Minimal
	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406762

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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Skin		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406763

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	* Parathyroid Gland	* Pituitary 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	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406764

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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Eye			
Note: One optic nerve examined only			
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 117

TRT#: 12
DOSE: 1250 MG/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 93
HISTO: 0406765

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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Eye		
Note: One optic nerve examined the other not available		
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Mild
* Liver	Hematopoietic Cell Proliferation	Minimal
	Inflammation	Chronic Active, Mild
* Lung	Inflammation	Chronic Active, Minimal
* Thyroid Gland		
Note: One thyroid gland examined, the other not available		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline

CAS Number: 108-99-6

Date Report Requested: 10/19/2014

Time Report Requested: 15:40:00

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------|----------------|-------------------------|
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Harderian Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Medulla | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406767

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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20009-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/19/2014
Time Report Requested: 15:40:00
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 1250 MG/L

DISP: Terminal Sacrifice

HISTO: 0406768

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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Eye			
Note: One optic nerve examined, the other not available			
* Heart		Cardiomyopathy	Minimal
* Kidney	Medulla	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Trachea		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE