

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic Liquid: N-Butylpyridinium Chloride
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020
Time Report Requested: 13:00:12
First Dose M/F: 09/19/13 / 09/20/13
Lab: BAT

NBUPY Rats - Final 2

NTP Study Number: C05052
Lock Date: 05/25/2018
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 701

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------|---------------|-------------------------------|-------------------------|
| * Int Sm Jejunum | | | |
| Note: [TGLS= 1-NCL] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 702

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 703

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testis |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------|-----------------------|-----------------------|
| * Harderian Gland | | Infiltration Cellular | Mononuclear CI, Mild |
| * Kidney | Papilla | Mineral | Minimal |
| | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 704

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1397663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney

Nephropathy

Chronicprogr, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 705

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1397664

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 Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testis |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--|--------------------|-------------------------------|-------------------------|
| * Harderian Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Heart | Endothelium, Valve | Hyperplasia | Mild |
| Note: Accumulation of mast cells and eosinophils near the atrium appears to be a floater | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 706

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Harderian Gland	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Chronicprogr, Minimal
* Liver	Inflammation	Chronic, Minimal
* Preputial Gland	Inflammation	Chronic, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 707

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|--|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-17] | | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 708

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307667

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, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Testis | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|-------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Int Sm Jejunum | | | |
| Note: [TGLS=1-NCL] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Preputial Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigment | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 709

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 710

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Stomach, Glandular | | Mineral | Minimal |

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 711

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307670

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 712

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307671

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 713

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307672

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 714

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307673

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic Liquid: N-Butylpyridinium Chloride
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020
Time Report Requested: 13:00:12
First Dose M/F: 09/19/13 / 09/20/13
Lab: BAT

ANIMAL ID: 715

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307674

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 716

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307675

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 717

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307676

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 718

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307677

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 719

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307678

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 720

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 0.3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307679

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 721

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307680

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 722

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307681

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 723

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307682

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic Liquid: N-Butylpyridinium Chloride
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020
Time Report Requested: 13:00:12
First Dose M/F: 09/19/13 / 09/20/13
Lab: BAT

ANIMAL ID: 724

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307683

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 725

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307684

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 726

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307685

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 727

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307686

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 728

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307687

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic Liquid: N-Butylpyridinium Chloride
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020
Time Report Requested: 13:00:12
First Dose M/F: 09/19/13 / 09/20/13
Lab: BAT

ANIMAL ID: 729

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307688

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 730

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 1 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307689

OBSERVATIONS

Gut Associated Lymphoid Tissue

Hyperplasia

Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 731

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 732

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Int Sm Jejunum

Note: [TGLS=1-NCL]

- * Kidney

Nephropathy

Chronicprogr, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 733

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Stomach, Glandular | Muscularis | Degeneration | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 734

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | |
|------------------|------------------------------|-----------------------|
| * Adrenal Cortex | Hypertrophy | Focal, Minimal |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Liver | Extramedullary Hematopoiesis | Minimal |
| * Lung | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 735

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | |
|-------------------|----------------|-----------------------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Preputial Gland | Inflammation | Chronic, Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 736

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|----------------------|-------------|-----------------------|
| * Adrenal Cortex | Hypertrophy | Focal, Minimal |
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Stomach, Glandular | Mineral | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 737

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Eosinophilic Focus | |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 738

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Metaplasia | Osseous, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Pancreas | Acinus | Atrophy | Minimal |
| * Preputial Gland | | Infiltration Cellular | Mononuclear CI, Mild |
| * Testis | Germinal Epith | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 739

TRT#: 7

SEX: Male

DAY ON TEST: 6

DOSE: 3 mg/mL male

DISP: Natural Death

HISTO: 1307698

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 |
| * Liver | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|----------------|----------------------|----------------------|
| * Epididymis | Duct | Exfoliated Germ Cell | Mild |
| * Heart | | Inflammation | Suppurative, Mild |
| * Kidney | | Infarct | Mild |
| | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Chronicprogr, Mild |
| * Lymph Node, Mandibular | | Necrosis | Lymphoid, Minimal |
| * Preputial Gland | | Inflammation | Suppurative, Minimal |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Testis | Germinal Epith | Degeneration | Minimal |
| Urethra | | Inflammation | Suppurative, Marked |
| Note: Prostatic Urethra is ulcerated with immediately surrounding inflammation and extension into the prostate, urinary bladder and kidneys | | | |
| * Urinary Bladder | | Inflammation | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

- Urethra Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 740

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 3 mg/mL male

DISP: Terminal Sacrifice

HISTO: 1307699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------|-----------------------|-------------------------|
| * Harderian Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Basophilic Focus | |
| * Nose | Glands, Respirat Epith | Dilation | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 741

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307710

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|----------|-----------------------------|---|---------------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Nose | Olfactory Epi
Epithelium | Accumulation, Hyaline Droplet
Inflammation | Minimal
Chronic Active, Mild |
| * Ovary | | Duct Remnant | |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 742

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307711

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------|------------|--------------|----------------------|
| * Nose | Epithelium | Inflammation | Chronic Active, Mild |
| * Uterus | | Inflammation | Acute, Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 743

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|------------|------------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Nose | Epithelium | Inflammation | Chronic Active, Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 744

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307713

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|----------------------|------------|------------------------------|-------------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Nose | Epithelium | Inflammation | Chronic Active, Mild |
| * Stomach, Glandular | | Mineral | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 745

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307714

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---------|-----------------------------|---|---------------------------------|
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Nose | Olfactory Epi
Epithelium | Accumulation, Hyaline Droplet
Inflammation | Minimal
Chronic Active, Mild |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 746

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Kidney	* Liver	* Lymph Node, Mandibular	* 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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Clitoral Gland	Infiltration Cellular	Mononuclear CI, Mild
* Lung	Inflammation	Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 747

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307716

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * 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 | | |

OBSERVATIONS

- | | | |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 748

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307717

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 | * Kidney | * Liver | * Lung |
| * Lymph Node, Mandibular | * 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 | | |

OBSERVATIONS

- | | | |
|------------------|-----------------------|----------------------|
| * Clitoral Gland | Infiltration Cellular | Mononuclear CI, Mild |
|------------------|-----------------------|----------------------|

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 749

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307718

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 750

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------|---------------|-------------------------------|-------------------------|
| * Esophagus | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 751

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307720

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 752

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307721

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 753

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307722

OBSERVATIONS

Nose	Epithelium	Inflammation	Chronic Active, Minimal
Spleen		Atrophy	Marked
		Fibrosis	Moderate
		Pigment	Moderate

Note: The splenic capsule appears to have previously ruptured resulting in subsequent fibrosis and hemosiderin accumulation secondary to hemorrhage.

[Atrophy TGLs = 1-8]

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 754

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307723

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 755

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307724

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 756

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1397725

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Mild

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 757

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307726

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 758

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307727

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 759

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307728

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 760

TRT#: 4

SEX: Female

DAY ON TEST: 92

DOSE: 0.3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307729

OBSERVATIONS

Nose

Epithelium

Inflammation

Chronic Active, Minimal

Experiment Number: 50052 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic Liquid: N-Butylpyridinium Chloride
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020
Time Report Requested: 13:00:12
First Dose M/F: 09/19/13 / 09/20/13
Lab: BAT

ANIMAL ID: 761

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307730

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 762

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307731

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 763

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307732

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 764

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307733

OBSERVATIONS

Uterus

Dilation

Minimal

[Dilation TGLs = 1-14]

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 765

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307734

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 766

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307735

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 767

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307736

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 768

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307737

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 769

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307738

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 770

TRT#: 6

SEX: Female

DAY ON TEST: 92

DOSE: 1 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307739

*** NECROPSIED - NO MICROSCOPIC EXAMINATION

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 771

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307740

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|---------|
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
| * Uterus | | Dilation | Minimal |
- [Dilation TGLs = 1-14]

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 772

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307741

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---------|---------------|-------------------------------|------------------|
| * Liver | | Inflammation | Chronic, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 773

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307742

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 774

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307743

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * Lymph Node, Mandibular | * 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 | | |

OBSERVATIONS

- | | | |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 775

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307744

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|--------|---------------|-------------------------------|---------|
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |
|--------|---------------|-------------------------------|---------|

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 776

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307745

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|----------|---------------|-------------------------------|-----------------------|
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 777

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|-------------------------------|-------------------------|
| * Clitoral Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Harderian Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Liver | | Extramedullary Hematopoiesis | Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 778

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307747

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 Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|---------|---------------|-------------------------------|---------------------|
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 779

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307748

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 | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------|---------------|-------------------------------|-------------------------|
| * Clitoral Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Int Sm Jejunum | | | |
| Note: [TGLS=1-NCL] | | | |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

ANIMAL ID: 780

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 3 mg/mL female

DISP: Terminal Sacrifice

HISTO: 1307749

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 | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|------------------------|-----------------------|-------------------------|
| * Clitoral Gland | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney | | Nephropathy | Chronicprogr, Minimal |
| * Nose | Glands, Respirat Epith | Dilation | Minimal |

*** END OF REPORT ***