

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

Final_1 - NBUPY Mice

NTP Study Number: C05052

Lock Date: 02/26/2018

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 - 02

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ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grad

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
0 mg/mL male	ANIMAL ID	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2
Blood Vessel		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
Heart Cardiomyopathy		6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	1	1
ENDOCRINE SYSTEM		1	2	3	4	5	6	7	8	9	0
		* TOTALS									
Blood Vessel		+	+	+	+	+	+	+	+	+	10
Heart Cardiomyopathy		+	+	+	+	+	+	+	+	+	10
		1									1 1.0
GENERAL BODY SYSTEM											
NONE											
GENITAL SYSTEM											
Epididymis		+	+	+	+	+	+	+	+	+	10
Preputial Gland		+	+	+	+	+	+	+	+	+	10
Prostate		+	+	+	+	+	+	+	+	+	10

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Lab: BAT

		DAY ON TEST	0 0 9 2										
		ANIMAL ID	0 0 6 0 1	0 0 6 0 2	0 0 6 0 3	0 0 6 0 4	0 0 6 0 5	0 0 6 0 6	0 0 6 0 7	0 0 6 0 8	0 0 6 0 9	0 0 6 0 0	* TOTALS
B6C3F1 MICE MALE													
0 mg/mL male													
Seminal Vesicle			+	+	+	+	+	+	+	+	+	+	10
Testis			+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM													
Bone Marrow			+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular			+	+	+	+	+	+	+	+	I	+	9
Lymph Node, Mesenteric			+	+	+	+	+	+	+	+	+	+	10
Spleen			+	+	+	+	+	+	+	+	+	+	10
Thymus			+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM													
Mammary Gland			M	M	M	M	M	M	M	M	M	M	0
Skin			+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM													
Bone			+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM													
Brain			+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM													

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Lab: BAT

B6C3F1 MICE MALE	0 mg/mL male	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
ANIMAL ID		9	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2	2
SPECIAL SENSES SYSTEM		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	
		* TOTALS										
		Lung	+	+	+	+	+	+	+	+	+	10
		Nose	+	+	+	+	+	+	+	+	+	10
		Trachea	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM		* TOTALS										
		Kidney	+	+	+	+	+	+	+	+	+	10
		Nephropathy, Chronic Progressive										2 1.0
		Urinary Bladder	+	+	+	+	+	+	+	+	+	10

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		DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	1	1	1	1	1	1	1	1	2
		1	2	3	4	5	6	7	8	9	9	0	0

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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		DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	1	1	1	1	1	1	1	1	2
		1	2	3	4	5	6	7	8	9	9	0	0

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ + + + + + + + + +

10

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		DAY ON TEST											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6	6
		2	2	2	2	2	2	2	2	2	2	2	3
		1	2	3	4	5	6	7	8	9	0		

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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Lab: BAT

		DAY ON TEST											
		ANIMAL ID											
B6C3F1 MICE MALE		0	0	0	0	0	0	0	0	0	0	0	0
3 mg/mL male		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6	6
		2	2	2	2	2	2	2	2	2	2	3	3
		1	2	3	4	5	6	7	8	9	0		

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

Nephropathy, Chronic Progressive

+ + + + + + + + + + +

10
4 1.0

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Lab: BAT

| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | 10 |
| | | | | | | | | | | | 1 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

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Time Report Requested: 11:03:27

Route: DOSED WATER

CAS Number: 1124-64-7

First Dose M/F: 09/18/13 / 09/17/13

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 mg/mL male | ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| * TOTALS | | | | | | | | | | | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + |
| Heart | | + | + | + | + | + | + | + | + | + | + |
| ENDOCRINE SYSTEM | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | | + | + | + | M | M | + | M | M | + | M |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| Epididymis | | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Infiltration Cellular, Mononuclear Cell | | + | + | + | + | + | + | + | + | + | + |
| Prostate | | + | + | + | + | + | + | + | + | + | + |

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Lab: BAT

| | | DAY ON TEST | 0
0
9
2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ANIMAL ID | 0
0
6
3
1 | 0
0
6
3
2 | 0
0
6
3
4 | 0
0
6
3
5 | 0
0
6
3
6 | 0
0
6
3
7 | 0
0
6
3
8 | 0
0
6
3
9 | 0
0
6
3
0 |
| * TOTALS | | | | | | | | | | | |
| Seminal Vesicle | | | + | + | + | + | + | + | + | + | + |
| Testis | | | + | + | + | + | + | + | + | + | + |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | |
| Bone Marrow | | | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | | | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + |
| Spleen | | | + | + | + | + | + | + | + | + | + |
| Thymus | | | + | + | + | + | + | + | + | + | + |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | |
| Mammary Gland | | | M | M | M | M | M | M | + | M | M |
| Skin | | | + | + | + | + | + | + | + | + | + |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + |
| NERVOUS SYSTEM | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | |

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Lab: BAT

| B6C3F1 MICE MALE | 6 mg/mL male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|------------------------------|-------------------------|---|----|-----|-----|---|---|---|---|---|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Lung | Inflammation, Chronic Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nose | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| Trachea | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * |
| | | * TOTALS | | | | | | | | | | |
| Lung | Inflammation, Chronic Active | + + + + + + + + + + | 1 | 10 | 1 | 1.0 | | | | | | |
| Nose | | + + + + + + + + + + | | 10 | | | | | | | | |
| Trachea | | + + + + + + + + + + | | 10 | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | + + + + + + + + + + | | 10 | | | | | | | | |
| Harderian Gland | | + + + + + + + + + + | | 10 | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | |
| Kidney | | + + + + + + + + + + | | 10 | | | | | | | | |
| Nephropathy, Chronic Progressive | | 1 1 1 1 1 1 1 1 1 1 1 1 | | 8 | 1.0 | | | | | | | |
| Papilla, Mineral | | 1 | | 1 | 1.0 | | | | | | | |
| Renal Tubule, Cytoplasmic Alteration | | 2 2 2 2 2 2 1 2 2 2 2 3 | | 10 | 2.0 | | | | | | | |
| Urethra | | + | | | | | | | | | | |
| Urinary Bladder | | + + + + + + + + + + | | 10 | | | | | | | | |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/mL female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------|----------------|-------------|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ALIMENTARY SYSTEM | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | * TOTALS | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Esophagus

Gallbladder

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Liver
Extramedullary Hematopoiesis

Pancreas

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| 1 | | | | | | | | | | | | 2 1.0 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/08/2020

Test Type: 14-WEEK

Ionic Liquid: N-Butylpyridinium Chloride

Time Report Requested: 11:03:27

Route: DOSED WATER

CAS Number: 1124-64-7

First Dose M/F: 09/18/13 / 09/17/13

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 mg/mL female | ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| * TOTALS | | | | | | | | | | | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + |
| Heart | | + | + | + | + | + | + | + | + | + | + |
| ENDOCRINE SYSTEM | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | | M | + | + | + | + | M | M | + | + | M |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| Clitoral Gland | | + | + | M | + | M | + | + | M | + | + |
| Ovary | | + | + | + | + | + | + | + | + | + | + |
| Uterus | | + | + | + | + | + | + | + | + | + | + |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/mL female | DAY ON TEST | | | | | | | | | | | * TOTALS |
|-------------------------------|----------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | | | 0
0
9
2 | |
| | | ANIMAL ID | 0
0
6
4
1 | 0
0
6
4
2 | 0
0
6
4
3 | 0
0
6
4
4 | 0
0
6
4
5 | 0
0
6
4
6 | 0
0
6
4
7 | 0
0
6
4
8 | 0
0
6
4
9 | 0
0
6
5
0 | |
| Bone Marrow | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic Active | | | | | | | | | | | | | 1 1.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | |
| Lung | | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/mL female | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| * TOTALS | | | | | | | | | | | |
| Trachea | | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + |
| URINARY SYSTEM | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | 1 | | | |
| Nephropathy, Chronic Progressive | | 1 | | | | | | | 1 | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE
1 mg/mL female | DAY ON TEST | | | | | | | | | | | | |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|
| | | 0
0
9
2 | 0
0
9
2 | 0
0
9
2 |
| ANIMAL ID | 0
0
6
5
1 | 0
0
6
5
2 | 0
0
6
5
3 | 0
0
6
5
4 | 0
0
6
5
5 | 0
0
6
5
6 | 0
0
6
5
7 | 0
0
6
5
8 | 0
0
6
5
9 | 0
0
6
6
0 | 0
0
6
6
0 | | |
| | 0
0
6
5
1 | 0
0
6
5
2 | 0
0
6
5
3 | 0
0
6
5
4 | 0
0
6
5
5 | 0
0
6
5
6 | 0
0
6
5
7 | 0
0
6
5
8 | 0
0
6
5
9 | 0
0
6
6
0 | 0
0
6
6
0 | * TOTALS | |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex
X-zone, Persistent

+ + + + + + + X + + +

10
2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE
1 mg/mL female | DAY ON TEST
ANIMAL ID | | | | | | | | | | | | |
|--------------------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|
| | | 0
0
9
2 | 0
0
9
2 | 0
0
9
2 |
| | | 0
0
6
5
1 | 0
0
6
5
2 | 0
0
6
5
3 | 0
0
6
5
4 | 0
0
6
5
5 | 0
0
6
5
6 | 0
0
6
5
7 | 0
0
6
5
8 | 0
0
6
5
9 | 0
0
6
6
0 | | |

* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ + + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE
3 mg/mL female | DAY ON TEST | | | | | | | | | | | | |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|
| | | 0
0
9
2 | 0
0
9
2 | 0
0
9
2 |
| ANIMAL ID | 0
0
6
6
1 | 0
0
6
6
2 | 0
0
6
6
3 | 0
0
6
6
4 | 0
0
6
6
5 | 0
0
6
6
6 | 0
0
6
6
7 | 0
0
6
6
8 | 0
0
6
6
9 | 0
0
6
6
0 | 0
0
6
6
0 | | |
| | 0
0
6
6
1 | 0
0
6
6
2 | 0
0
6
6
3 | 0
0
6
6
4 | 0
0
6
6
5 | 0
0
6
6
6 | 0
0
6
6
7 | 0
0
6
6
8 | 0
0
6
6
9 | 0
0
6
6
0 | 0
0
6
6
0 | * TOTALS | |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex
X-zone, Persistent

+ + + + + + + + + +
X X X

10
3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| B6C3F1 MICE FEMALE
3 mg/mL female | DAY ON TEST | | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|--|--|------------------|
| | | 0
0
9
2 | 0
0
9
2 |
| ANIMAL ID | 0
0
6
6 | 0
0
6
7 | |
| | 1
2
3
4
5
6
7
8
9
0 | 0
0
6
6
6
6
7
8
9
0 | |

* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

Nephropathy, Chronic Progressive

+ + + + + + + + + +
1 1

10
2 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | 10 |
| | | | | | | | | | | | 1 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------|--|-------------|---|---|---|---|---|---|---|---|---|-------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | | | | | | | 1 | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically: Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 ... Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | |
|--------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|
| | | ANIMAL ID | | | | | | | | | | | |
| B6C3F1 MICE FEMALE
6 mg/mL female | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

* TOTALS

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|----|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 50052 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 01/08/2020

Time Report Requested: 11:03:27

First Dose M/F: 09/18/13 / 09/17/13

Lab: BAT

| | | DAY ON TEST | 0
0
9
2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ANIMAL ID | 0
0
6
7
1 | 0
0
6
7
2 | 0
0
6
7
3 | 0
0
6
7
4 | 0
0
6
7
5 | 0
0
6
7
6 | 0
0
6
7
7 | 0
0
6
7
8 | 0
0
6
7
9 | 0
0
6
8
0 |
| * TOTALS | | | | | | | | | | | | |
| Trachea | | | +
+
+
+
+ | 10 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | | +
+
+
+
+ | 10 | |
| Harderian Gland | | | +
+
+
+
+ | 10 | |
| URINARY SYSTEM | | | | | | | | | | | | |
| Kidney | | | +
+
+
+
+ | +
+
+
+
1 | 10 | |
| Nephropathy, Chronic Progressive | | | | | | | | | | | | 5 1.0 |
| Urinary Bladder | | | I
 | + | + | + | + | + | + | + | + | 9 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked