

**Experiment Number:** 20702 - 02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
**CAS Number:** USNEALICHEN

**Date Report Requested:** 12/03/2020  
**Time Report Requested:** 12:51:12  
**First Dose M/F:** 02/13/09 / 02/13/09  
**Lab:** NCTR

**NTP Study Number:** C20702  
**Lock Date:** 07/01/2013  
**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

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF USNEA LICHEN

### MALE MICE

#### Organ

Liver: Hepatocyte  
Spleen

### FEMALE MICE

#### Organ

Liver  
Liver: Hepatocyte  
Ovary

#### Morphology

Degeneration  
Hematopoietic Cell Proliferation

#### Morphology

Inflammation Chronic  
Degeneration  
Atrophy

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Adrenal Cortex</b>			
<b>Accessory Adrenal Cortical Nodule</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

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---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Adrenal Cortex</b>			
<b>Vacuolization Cytoplasmic</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Adrenal Cortex: Subcapsular Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	95 (T)	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	P=0.760
POLY 6	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=1.000

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Bone, Femur Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Intestine Small, Duodenum: Epithelium Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney</b>			
Infiltration Cellular Lymphocyte			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	95 (T)	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	P=0.760
POLY 6	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=1.000

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney</b>			
<b>Nephropathy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney: Glomerulus Amyloid Deposition</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver</b>			
<b>Inflammation Chronic</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.270	(e)	P=0.500
POLY 1.5	P=0.270	(e)	P=0.500
POLY 6	P=0.270	(e)	P=0.500
COCH-ARM / FISHERS	P=0.267	(e)	P=0.500
MAX-ISO-POLY-3	P=0.109	(e)	P=0.158

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<hr/>			
Liver			
Tension Lipidosis			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	20%	10%	0%
TERMINAL (d)	2/10 (20%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	95 (T)	95 (T)	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	P=0.135N	P=0.500N	P=0.227N
POLY 1.5	P=0.135N	P=0.500N	P=0.227N
POLY 6	P=0.135N	P=0.500N	P=0.227N
COCH-ARM / FISHERS	P=0.132N	P=0.500N	P=0.237N
MAX-ISO-POLY-3	P=0.070N	P=0.274N	P=0.066N

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---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<hr/>			
Liver			
Vacuolization Cytoplasmic			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver: Hepatocyte Degeneration</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	P<0.001**	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	P<0.001**
POLY 6	P<0.001**	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Lymph Node, Mesenteric Hyperplasia Lymphoid</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	95 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.158N

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Pancreas Cyst</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Pituitary Gland: Pars Distalis Cyst</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	95 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.158N

---

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM

---

Pituitary Gland: Pars Distalis  
Hyperplasia

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**LESION RATES**

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---

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**STATISTICAL TESTS**

POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

---

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Preputial Gland Cyst</b>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	95 (T)	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.274N

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Preputial Gland Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	95 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.158N

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>			
<b>Depletion Lymphoid</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

---

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>			
<b>Hematopoietic Cell Proliferation</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	95 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.095
POLY 1.5	(e)	(e)	P=0.095
POLY 6	(e)	(e)	P=0.095
COCH-ARM / FISHERS	P=0.059	(e)	P=0.105
MAX-ISO-POLY-3	(e)	(e)	P=0.025*

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>			
Hyperplasia Lymphoid			
<b>LESION RATES</b>			
OVERALL (a)	5/10 (50%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	50%	0%	40%
TERMINAL (d)	5/10 (50%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	95 (T)	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.411N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.332N

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

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Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen Pigmentation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Thymus Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
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Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Males		
	Control 0 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Thyroid Gland</b>			
<b>Ectopic Thymus</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	95 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Adrenal Cortex</b>				
<b>Accessory Adrenal Cortical Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.22	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
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First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/9.22	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	10.9%	0%	0%	0%
TERMINAL (d)	1/9 (11%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	95 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.505N
POLY 1.5	(e)	(e)	(e)	P=0.508N
POLY 6	(e)	(e)	(e)	P=0.501N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.163N

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
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Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM

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**Adrenal Cortex: Subcapsular  
Hyperplasia**

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<b>LESION RATES</b>				
OVERALL (a)	8/10 (80%)	0/0 (0%)	0/0 (0%)	9/10 (90%)
POLY-3 RATE (b)	8/9.22	0/0.00	0/0.00	9/9.01
POLY-3 PERCENT (g)	86.8%	0%	0%	99.9%
TERMINAL (d)	8/9 (89%)	0/0 (0%)	0/0 (0%)	9/9 (100%)
FIRST INCIDENCE	95 (T)	---	---	95 (T)

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<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.424
POLY 1.5	(e)	(e)	(e)	P=0.378
POLY 6	(e)	(e)	(e)	P=0.482
COCH-ARM / FISHERS	P=0.377	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.120

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Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
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 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
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 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Bone, Femur Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.323N	(e)	(e)	P=0.526N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.178N

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Intestine Small, Duodenum: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.22	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10.9%	0%	0%	0%
TERMINAL (d)	1/9 (11%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	95 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.505N
POLY 1.5	(e)	(e)	(e)	P=0.510N
POLY 6	(e)	(e)	(e)	P=0.501N
COCH-ARM / FISHERS	P=0.323N	(e)	(e)	P=0.526N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.164N



Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney</b>				
Infiltration Cellular Lymphocyte				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.22	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney</b>				
<b>Nephropathy</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.519N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.184N

---

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Kidney: Glomerulus Amyloid Deposition</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.519N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.184N

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	2/10 (20%)	3/10 (30%)	0/9 (0%)
POLY-3 RATE (b)	0/9.22	2/10.00	3/10.00	0/9.00
POLY-3 PERCENT (g)	0%	20%	30%	0%
TERMINAL (d)	0/9 (0%)	2/10 (20%)	3/10 (30%)	0/9 (0%)
FIRST INCIDENCE	---	95 (T)	95 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.497N	P=0.246	P=0.110	(e)
POLY 1.5	P=0.510N	P=0.240	P=0.105	(e)
POLY 6	P=0.487N	P=0.251	P=0.114	(e)
COCH-ARM / FISHERS	P=0.538N	P=0.237	P=0.105	(e)
MAX-ISO-POLY-3	P=0.137	P=0.083	P=0.035*	(e)

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver</b>				
<b>Tension Lipidosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.22	0/10.00	0/10.00	0/9.00
POLY-3 PERCENT (g)	10.9%	0%	0%	0%
TERMINAL (d)	1/9 (11%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	95 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.356N	P=0.484N	P=0.484N	P=0.505N
POLY 1.5	P=0.352N	P=0.489N	P=0.489N	P=0.510N
POLY 6	P=0.359N	P=0.480N	P=0.480N	P=0.501N
COCH-ARM / FISHERS	P=0.341N	P=0.500N	P=0.500N	P=0.526N
MAX-ISO-POLY-3	P=0.080N	P=0.157N	P=0.157N	P=0.164N

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/9.22	0/10.00	0/10.00	0/9.00
POLY-3 PERCENT (g)	10.9%	0%	0%	0%
TERMINAL (d)	1/9 (11%)	0/10 (0%)	0/10 (0%)	0/9 (0%)
FIRST INCIDENCE	95 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.356N	P=0.484N	P=0.484N	P=0.505N
POLY 1.5	P=0.352N	P=0.489N	P=0.489N	P=0.510N
POLY 6	P=0.359N	P=0.480N	P=0.480N	P=0.501N
COCH-ARM / FISHERS	P=0.341N	P=0.500N	P=0.500N	P=0.526N
MAX-ISO-POLY-3	P=0.080N	P=0.157N	P=0.157N	P=0.164N

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Liver: Hepatocyte Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/10 (0%)	1/10 (10%)	8/9 (89%)
POLY-3 RATE (b)	1/9.22	0/10.00	1/10.00	8/9.00
POLY-3 PERCENT (g)	10.9%	0%	10%	88.9%
TERMINAL (d)	1/9 (11%)	0/10 (0%)	1/10 (10%)	8/9 (89%)
FIRST INCIDENCE	95 (T)	---	95 (T)	95 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.484N	P=0.742N	P<0.001**
POLY 1.5	P<0.001**	P=0.489N	P=0.748N	P<0.001**
POLY 6	P<0.001**	P=0.480N	P=0.738N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.763N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.157N	P=0.475N	P<0.001**

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	1/9.22	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	10.9%	0%	0%	30%
TERMINAL (d)	1/9 (11%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
FIRST INCIDENCE	95 (T)	---	---	20
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.323
POLY 1.5	(e)	(e)	(e)	P=0.313
POLY 6	(e)	(e)	(e)	P=0.331
COCH-ARM / FISHERS	P=0.201	(e)	(e)	P=0.291
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.166

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Lymph Node, Mesenteric Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	2/9.22	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	21.7%	0%	0%	0%
TERMINAL (d)	2/9 (22%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	95 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.231N
POLY 1.5	(e)	(e)	(e)	P=0.237N
POLY 6	(e)	(e)	(e)	P=0.226N
COCH-ARM / FISHERS	P=0.148N	(e)	(e)	P=0.263N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.070N

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Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Ovary Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	10%	0%	70%	100%
TERMINAL (d)	0/9 (0%)	0/10 (0%)	7/10 (70%)	9/9 (100%)
FIRST INCIDENCE	57	---	95 (T)	20
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.500N	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.003**	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.010**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P<0.001**	P<0.001**

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Pancreas Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.22	0/0.00	0/0.00	1/9.01
POLY-3 PERCENT (g)	0%	0%	0%	11.1%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	95 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.495
POLY 1.5	(e)	(e)	(e)	P=0.492
POLY 6	(e)	(e)	(e)	P=0.499
COCH-ARM / FISHERS	P=0.304	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.157

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM

---

Pituitary Gland: Pars Distalis  
Cyst

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**LESION RATES**

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.22	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---

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**STATISTICAL TESTS**

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM

---

Pituitary Gland: Pars Distalis  
Hyperplasia

---

LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.01
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---

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STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.519N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.184N

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Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
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 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>				
<b>Depletion Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.323N	(e)	(e)	P=0.526N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.178N

Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	7/9 (78%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	7/9.00
POLY-3 PERCENT (g)	60%	0%	0%	77.8%
TERMINAL (d)	5/9 (56%)	0/0 (0%)	0/0 (0%)	7/9 (78%)
FIRST INCIDENCE	57	---	---	95 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.372
POLY 1.5	(e)	(e)	(e)	P=0.372
POLY 6	(e)	(e)	(e)	P=0.372
COCH-ARM / FISHERS	P=0.279	(e)	(e)	P=0.370
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.217

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Experiment Number: 20702 - 02  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Usnea Lichen  
CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
Time Report Requested: 12:51:12  
First Dose M/F: 02/13/09 / 02/13/09  
Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
TERMINAL SACRIFICE AT 14 WEEKS**

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DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen</b>				
Hyperplasia Lymphoid				
<b>LESION RATES</b>				
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	4/9 (44%)
POLY-3 RATE (b)	3/9.22	0/0.00	0/0.00	4/9.00
POLY-3 PERCENT (g)	32.6%	0%	0%	44.4%
TERMINAL (d)	3/9 (33%)	0/0 (0%)	0/0 (0%)	4/9 (44%)
FIRST INCIDENCE	95 (T)	---	---	95 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.485
POLY 1.5	(e)	(e)	(e)	P=0.468
POLY 6	(e)	(e)	(e)	P=0.497
COCH-ARM / FISHERS	P=0.340	(e)	(e)	P=0.430
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.310

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Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Spleen Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/9.22	0/0.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	0%	11.1%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	95 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.495
POLY 1.5	(e)	(e)	(e)	P=0.490
POLY 6	(e)	(e)	(e)	P=0.499
COCH-ARM / FISHERS	P=0.285	(e)	(e)	P=0.474
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
Thymus Atrophy				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	57	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.323N	(e)	(e)	P=0.526N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.178N

Experiment Number: 20702 - 02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: MICE/B6C3F1/NCTR

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Usnea Lichen  
 CAS Number: USNEALICHEN

Date Report Requested: 12/03/2020  
 Time Report Requested: 12:51:12  
 First Dose M/F: 02/13/09 / 02/13/09  
 Lab: NCTR

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1/NCTR)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	Control 0 PPM	USNEA 60 PPM	USNEA 180 PPM	USNEA 360 PPM
<b>Thyroid Gland</b>				
<b>Ectopic Thymus</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/9.22	0/0.00	0/0.00	1/9.01
POLY-3 PERCENT (g)	10.9%	0%	0%	11.1%
TERMINAL (d)	1/9 (11%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	95 (T)	---	---	95 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.757
POLY 1.5	(e)	(e)	(e)	P=0.753
POLY 6	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.492

**Experiment Number:** 20702 - 02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** MICE/B6C3F1/NCTR

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Usnea Lichen  
**CAS Number:** USNEALICHEN

**Date Report Requested:** 12/03/2020  
**Time Report Requested:** 12:51:12  
**First Dose M/F:** 02/13/09 / 02/13/09  
**Lab:** NCTR

## **LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (e) Value of statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (n) No statistics are calculated if all dose groups have fewer than two tumors.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*