

**Experiment Number:** 02200-04  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** Styrene  
**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:27:52  
**First Dose M/F:** NA / NA  
**Lab:** BNW

<b>C Number:</b>	C02200B
<b>Lock Date:</b>	05/26/1992
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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

**Test Compound:** Styrene

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**First Dose M/F:** NA / NA

**Lab:** BNW

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF STYRENE**

**MALE MOUSE**

**Organ**

Heart

Kidney: Cortex, Renal Tubule

Larynx

Liver

Liver: Centrilobular

Lung

Lung: Bronchiole

Lymph Node, Mesenteric

Nose: Olfactory Epi

Spleen

Stomach, Forestomach: Epithelium

Stomach, Glandular

Stomach, Glandular: Muscularis

Testes

Thymus

**FEMALE MOUSE**

**Organ**

Adrenal Cortex

Heart

Larynx

Liver

**Morphology**

Mineralization

Hemorrhage

Mineralization

Necrosis

Metaplasia

Mineralization

Karyomegaly

Inflammation

Cytomegaly

Necrosis

Inflammation

Degeneration

Necrosis

Degeneration

Inflammation

Necrosis

Metaplasia

Pigmentation Melanin

Hyperplasia

Mineralization

Mineralization

Mineralization

Necrosis

**Morphology**

Degeneration

Mineralization

Metaplasia

Hemorrhage Focal

**Experiment Number:** 02200-04

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**First Dose M/F:** NA / NA

**Lab:** BNW

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF STYRENE**

Liver: Centrilobular	Mineralization
	Karyomegaly
	Inflammation
	Cytomegaly
	Necrosis
Lung: Arteriole	Hypertrophy
	Inflammation
Lung: Bronchiole	Degeneration
Nose: Olfactory Epi	Degeneration
	Inflammation
	Metaplasia
Ovary	Cyst
Stomach, Forestomach	Ulcer
Stomach, Forestomach: Epithelium	Hyperplasia
Stomach, Glandular: Muscularis	Mineralization

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Adrenal Cortex</b>					
<b>Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Adrenal Cortex Hypertrophy</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	P=0.500N	P=0.652N	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N	P=0.651N	P=0.500N
POLY 6	(e)	(e)	P=0.500N	P=0.652N	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N	P=0.346N	P=0.159N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

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First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Brain</b>					
<b>Granuloma</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/10 (10%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93(T)	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	(e)	(e)	P=0.500	(e)	(e)
POLY 6	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.568N	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	P=0.159	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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Species/Strain: Mouse/B6C3F1

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Test Compound: Styrene

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart</b>					
<b>Cardiomyopathy</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/10 (10%)	0/0 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/10 (10%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	93(T)	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	P=0.760	P=0.652N	P=0.500N
POLY 1.5	(e)	(e)	P=0.760	P=0.651N	P=0.500N
POLY 6	(e)	(e)	P=0.760	P=0.652N	P=0.500N
COCH-ARM / FISHERS	P=0.231N	(e)	P=0.763N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=1.000	P=0.346N	P=0.159N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart Hemorrhage</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	3/7.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	42.9%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.041*	(e)
POLY 1.5	(e)	(e)	(e)	P=0.041*	(e)
POLY 6	(e)	(e)	(e)	P=0.041*	(e)
COCH-ARM / FISHERS	P=0.540	(e)	(e)	P=0.105	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.018*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	3/4.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	75%	30%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	3/4 (75%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.008**	P=0.095
POLY 1.5	(e)	(e)	(e)	P=0.009**	P=0.095
POLY 6	(e)	(e)	(e)	P=0.008**	P=0.095
COCH-ARM / FISHERS	P=0.026*	(e)	(e)	P=0.105	P=0.105
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.009**	P=0.025*
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

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Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

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Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Kidney: Cortex, Renal Tubule Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	2/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	2/4 (50%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.078	(e)
POLY 1.5	(e)	(e)	(e)	P=0.079	(e)
POLY 6	(e)	(e)	(e)	P=0.078	(e)
COCH-ARM / FISHERS	P=0.597	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.049*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Kidney: Cortex, Renal Tubule</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	6/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P<0.001**	(e)
POLY 1.5	(e)	(e)	(e)	P<0.001**	(e)
POLY 6	(e)	(e)	(e)	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.441	(e)	(e)	P=0.005**	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Larynx</b>					
<b>Metaplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	0/4.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	P=0.095
POLY 1.5	(e)	(e)	(e)	(e)	P=0.095
POLY 6	(e)	(e)	(e)	(e)	P=0.095
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.025*
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver</b>					
<b>Basophilic Focus</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	0/4.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/4 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.201	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.201	(e)	(e)	(e)	P=0.500
POLY 6	P=0.201	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.189	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.136	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver					
Hemorrhage Focal					
LESION RATES					
OVERALL(a)	0/10 (0%)	0/1 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	1/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	1/10 (10%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93(T)	---	---
STATISTICAL TESTS					
POLY 3	P=0.621N	(e)	P=0.500	(e)	(e)
POLY 1.5	P=0.621N	(e)	P=0.500	(e)	(e)
POLY 6	P=0.621N	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.576N	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.436N	(e)	P=0.159	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	4/10 (40%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	4/4.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	30%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	4/4 (100%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.014*	(e)	(e)	P=0.000**	P=0.095
POLY 1.5	P=0.015*	(e)	(e)	P=0.000**	P=0.095
POLY 6	P=0.014*	(e)	(e)	P=0.000**	P=0.095
COCH-ARM / FISHERS	P=0.025*	(e)	(e)	P=0.043*	P=0.105
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	P=0.025*
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Cytomegaly</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	2/4.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	2/4 (50%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.078	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.079	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.078	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.237	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.049*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	0/4.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	90%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/4 (0%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Karyomegaly</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	0/4.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/4 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	(e)	P=NA
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=NA
POLY 6	P=0.000**	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	6/10 (60%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	6/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/4 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P<0.001**	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P<0.001**	P=NA
POLY 6	P=0.000**	(e)	(e)	P<0.001**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.005**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung</b>					
<b>Hemorrhage</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.438N	P=0.500N	P=0.500N	P=0.652N	P=0.500N
POLY 1.5	P=0.437N	P=0.500N	P=0.500N	P=0.651N	P=0.500N
POLY 6	P=0.438N	P=0.500N	P=0.500N	P=0.652N	P=0.500N
COCH-ARM / FISHERS	P=0.360N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.097N	P=0.159N	P=0.159N	P=0.346N	P=0.159N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung</b>					
<b>Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.048*	(e)	(e)	P<0.001**	P=0.500
POLY 1.5	P=0.048*	(e)	(e)	P<0.001**	P=0.500
POLY 6	P=0.048*	(e)	(e)	P<0.001**	P=0.500
COCH-ARM / FISHERS	P=0.097	(e)	(e)	P=0.005**	P=0.500
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	P=0.000**	P=0.159
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Arteriole Hypertrophy</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Arteriole Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Bronchiole Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	4/4 (100%)	10/10 (100%)
FIRST INCIDENCE	---	93(T)	93(T)	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lymph Node, Mesenteric Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/9 (0%)	4/9 (44%)	0/9 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00	4/7.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%	57.1%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)	0/3 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.006**	(e)
POLY 1.5	(e)	(e)	(e)	P=0.006**	(e)
POLY 6	(e)	(e)	(e)	P=0.006**	(e)
COCH-ARM / FISHERS	P=0.473	(e)	(e)	P=0.033*	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.003**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Nasolacrim Dct Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/6.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	33.3%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.592	(e)	(e)	P=0.125	(e)
POLY 1.5	P=0.592	(e)	(e)	P=0.125	(e)
POLY 6	P=0.592	(e)	(e)	P=0.125	(e)
COCH-ARM / FISHERS	P=1.000	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.111	(e)	(e)	P=0.057	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Nasopharyn Dct</b>					
<b>Cytoplasmic Alteration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/4.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.155	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.155	(e)	(e)	(e)	P=0.500
POLY 6	P=0.155	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.142	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.097	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	4/10 (40%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	4/4.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	4/4 (100%)	10/10 (100%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=NA	P=0.000**	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=0.000**	P=NA
POLY 6	P=0.000**	P=NA	P=NA	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.009**	P=0.000**	P=0.000**	P=0.043*	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	7/10 (70%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	7/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	70%	80%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	7/10 (70%)	2/4 (50%)	10/10 (100%)
FIRST INCIDENCE	---	---	93(T)	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	P=0.000**	P=0.000**	P=NA
POLY 1.5	P=0.000**	(e)	P=0.000**	P=0.000**	P=NA
POLY 6	P=0.000**	(e)	P=0.000**	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.002**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.000**	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Metaplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	3/10 (30%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	3/4.00	4/10.00
POLY-3 PERCENT (g)	0%	100%	100%	75%	40%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	3/4 (75%)	4/10 (40%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.399N	P=NA	P=NA	P=0.008**	P=0.033*
POLY 1.5	P=0.398N	P=NA	P=NA	P=0.009**	P=0.033*
POLY 6	P=0.399N	P=NA	P=NA	P=0.008**	P=0.033*
COCH-ARM / FISHERS	P=0.308N	P=0.000**	P=0.000**	P=0.105	P=0.043*
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.009**	P=0.007**
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.193	(e)	(e)	P<0.001**	(e)
POLY 1.5	P=0.193	(e)	(e)	P<0.001**	(e)
POLY 6	P=0.193	(e)	(e)	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.269	(e)	(e)	P=0.005**	(e)
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Pancreas: Duct</b>					
<b>Cyst</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Spleen</b>					
<b>Pigmentation Melanin</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	1/1 (100%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	93(T)	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.275N	P=0.091	(e)	(e)	(e)
POLY 1.5	P=0.269N	P=0.091	(e)	(e)	(e)
POLY 6	P=0.275N	P=0.091	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.440N	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.000N**	P=0.000**	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Forestomach Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/4.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	93(T)	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.580N	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.579N	P=0.500	(e)	(e)	(e)
POLY 6	P=0.580N	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.374N	P=0.159	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Forestomach</b>					
<b>Ulcer</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/5.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93(T)	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.701N	(e)	P=0.500	P=0.372	(e)
POLY 1.5	P=0.701N	(e)	P=0.500	P=0.373	(e)
POLY 6	P=0.701N	(e)	P=0.500	P=0.372	(e)
COCH-ARM / FISHERS	P=0.695	(e)	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.319	(e)	P=0.159	P=0.152	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Forestomach: Epithelium</b>					
<b>Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	7/10 (70%)	7/10 (70%)	2/10 (20%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	7/10.00	7/10.00	2/4.00	10/10.00
POLY-3 PERCENT (g)	0%	70%	70%	50%	100%
TERMINAL (d)	0/10 (0%)	7/10 (70%)	7/10 (70%)	2/4 (50%)	10/10 (100%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=0.000**	P=0.000**	P=0.078	P=NA
POLY 1.5	P=0.000**	P=0.000**	P=0.000**	P=0.079	P=NA
POLY 6	P=0.000**	P=0.000**	P=0.000**	P=0.078	P=NA
COCH-ARM / FISHERS	P=0.002**	P=0.002**	P=0.002**	P=0.237	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.000**	P=0.000**	P=0.049*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Glandular Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	4/7.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	57.1%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/4 (25%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.025*	(e)	(e)	P=0.007**	P=0.227
POLY 1.5	P=0.025*	(e)	(e)	P=0.007**	P=0.227
POLY 6	P=0.025*	(e)	(e)	P=0.007**	P=0.227
COCH-ARM / FISHERS	P=0.032*	(e)	(e)	P=0.043*	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	P=0.003**	P=0.067
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Glandular: Muscularis</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/6.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/4 (25%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	3	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.033*	(e)	(e)	P=0.027*	P=0.227
POLY 1.5	P=0.033*	(e)	(e)	P=0.028*	P=0.227
POLY 6	P=0.033*	(e)	(e)	P=0.027*	P=0.227
COCH-ARM / FISHERS	P=0.033*	(e)	(e)	P=0.105	P=0.237
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	P=0.016*	P=0.067
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Testes</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	2/4.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	2/4 (50%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.078	(e)
POLY 1.5	(e)	(e)	(e)	P=0.079	(e)
POLY 6	(e)	(e)	(e)	P=0.078	(e)
COCH-ARM / FISHERS	P=0.597	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.049*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Thymus</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	6/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/4 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	3	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P<0.001**	(e)
POLY 1.5	(e)	(e)	(e)	P<0.001**	(e)
POLY 6	(e)	(e)	(e)	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.441	(e)	(e)	P=0.005**	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 1 WEEKS**

DOSE	MALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Urinary Bladder Dilatation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00	0/4.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)	0/4 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	93(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.202	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Adrenal Cortex</b>					
<b>Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	9/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	90%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=0.000**	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=0.000**	P=NA	P=NA
POLY 6	P=0.000**	P=NA	P=0.000**	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.000**	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Adrenal Cortex</b>					
<b>Hypertrophy</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Brain</b>					
<b>Granuloma</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart</b>					
<b>Cardiomyopathy</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart</b>					
<b>Hemorrhage</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Heart Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	3/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.095	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.095	P=0.500
POLY 6	(e)	(e)	(e)	P=0.095	P=0.500
COCH-ARM / FISHERS	P=0.238	(e)	(e)	P=0.105	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.025*	P=0.159
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Kidney: Cortex, Renal Tubule</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Kidney: Cortex, Renal Tubule</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Larynx Metaplasia					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00	4/10.00	5/10.00
POLY-3 PERCENT (g)	0%	0%	0%	40%	50%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.033*	P=0.008**
POLY 1.5	(e)	(e)	(e)	P=0.033*	P=0.008**
POLY 6	(e)	(e)	(e)	P=0.033*	P=0.008**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	P=0.043*	P=0.016*
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.007**	P<0.001**
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Liver					
Basophilic Focus					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver</b>					
<b>Hemorrhage Focal</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	1/1 (100%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	94(T)	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.440N	P=0.091	(e)	(e)	(e)
POLY 1.5	P=0.440N	P=0.091	(e)	(e)	(e)
POLY 6	P=0.440N	P=0.091	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.440N	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.000N**	P=0.000**	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	9/10 (90%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	9/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	90%	20%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	9/10 (90%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.007**	(e)	(e)	P=0.000**	P=0.227
POLY 1.5	P=0.007**	(e)	(e)	P=0.000**	P=0.227
POLY 6	P=0.007**	(e)	(e)	P=0.000**	P=0.227
COCH-ARM / FISHERS	P=0.073	(e)	(e)	P=0.000**	P=0.237
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	P=0.067
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Cytomegaly</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	90%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	80%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Karyomegaly</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	70%	100%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.002**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Liver: Centrilobular Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/10 (0%)	3/10 (30%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/10.00	3/10.00	6/10.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	60%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/10 (0%)	3/10 (30%)	6/10 (60%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P=0.000**	(e)	(e)	P=0.095	P<0.001**
POLY 6	P=0.000**	(e)	(e)	P=0.095	P<0.001**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.105	P=0.005**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.025*	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung</b>					
<b>Hemorrhage</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.638	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.638	(e)	(e)	P=0.500	(e)
POLY 6	P=0.638	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.640	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.374	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung</b>					
<b>Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Arteriole Hypertrophy</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	40%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	94(T)	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.427N	(e)	P=0.033*	P=0.500	(e)
POLY 1.5	P=0.427N	(e)	P=0.033*	P=0.500	(e)
POLY 6	P=0.427N	(e)	P=0.033*	P=0.500	(e)
COCH-ARM / FISHERS	P=0.434N	(e)	P=0.043*	P=0.500	(e)
MAX-ISO-POLY-3	P=0.145	(e)	P=0.007**	P=0.159	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Arteriole Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	5/10 (50%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	5/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	50%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	5/10 (50%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	94(T)	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.434N	(e)	P=0.008**	P=0.227	(e)
POLY 1.5	P=0.434N	(e)	P=0.008**	P=0.227	(e)
POLY 6	P=0.434N	(e)	P=0.008**	P=0.227	(e)
COCH-ARM / FISHERS	P=0.443N	(e)	P=0.016*	P=0.237	(e)
MAX-ISO-POLY-3	P=0.071	(e)	P<0.001**	P=0.067	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lung: Bronchiole Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Lymph Node, Mesenteric</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Nasolacrim Dct Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Nasopharyn Dct</b>					
<b>Cytoplasmic Alteration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	5/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	(e)	P=0.008**	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	P=0.008**	P=0.000**
POLY 6	P=0.000**	(e)	(e)	P=0.008**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.016*	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P<0.001**	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Metaplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Nose: Olfactory Epi Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Ovary					
Cyst					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/1.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	P=0.091	(e)
POLY 1.5	(e)	(e)	(e)	P=0.091	(e)
POLY 6	(e)	(e)	(e)	P=0.091	(e)
COCH-ARM / FISHERS	P=0.700	(e)	(e)	P=0.091	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Pancreas: Duct</b>					
<b>Cyst</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	94(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Spleen</b>					
<b>Pigmentation Melanin</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Forestomach Inflammation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Stomach, Forestomach Ulcer					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	2/10 (20%)	3/10 (30%)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	2/10.00	3/10.00	4/10.00	0/10.00
POLY-3 PERCENT (g)	0%	20%	30%	40%	0%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	3/10 (30%)	4/10 (40%)	0/10 (0%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.446N	P=0.227	P=0.095	P=0.033*	(e)
POLY 1.5	P=0.446N	P=0.227	P=0.095	P=0.033*	(e)
POLY 6	P=0.446N	P=0.227	P=0.095	P=0.033*	(e)
COCH-ARM / FISHERS	P=0.448N	P=0.237	P=0.105	P=0.043*	(e)
MAX-ISO-POLY-3	P=0.135	P=0.067	P=0.025*	P=0.007**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Forestomach: Epithelium</b>					
<b>Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	7/10.00	10/10.00	10/10.00	7/10.00
POLY-3 PERCENT (g)	0%	70%	100%	100%	70%
TERMINAL (d)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	7/10 (70%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	94(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P<0.001**	P=0.000**	P=NA	P=NA	P=0.000**
POLY 1.5	P<0.001**	P=0.000**	P=NA	P=NA	P=0.000**
POLY 6	P<0.001**	P=0.000**	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.021*	P=0.002**	P=0.000**	P=0.000**	P=0.002**
MAX-ISO-POLY-3	P=0.000**	P=0.000**	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Glandular Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.638	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.638	(e)	(e)	P=0.500	(e)
POLY 6	P=0.638	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.640	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.374	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Stomach, Glandular: Muscularis</b>					
<b>Mineralization</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	2/10 (20%)	3/10 (30%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	2/10.00	3/10.00	3/10.00	0/10.00
POLY-3 PERCENT (g)	0%	20%	30%	30%	0%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	3/10 (30%)	3/10 (30%)	0/10 (0%)
FIRST INCIDENCE	---	94(T)	94(T)	94(T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.390N	P=0.227	P=0.095	P=0.095	(e)
POLY 1.5	P=0.390N	P=0.227	P=0.095	P=0.095	(e)
POLY 6	P=0.390N	P=0.227	P=0.095	P=0.095	(e)
COCH-ARM / FISHERS	P=0.393N	P=0.237	P=0.105	P=0.105	(e)
MAX-ISO-POLY-3	P=0.184	P=0.067	P=0.025*	P=0.025*	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Thymus Necrosis					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 02200-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:27:52

First Dose M/F: NA / NA

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE				
	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Urinary Bladder Dilatation</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

**Experiment Number:** 02200-04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** Styrene

**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 15:27:52

**First Dose M/F:** NA / NA

**Lab:** BNW

**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 \*\***