

**Experiment Number:** 88006-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** alpha-Methylstyrene  
**CAS Number:** 98-83-9

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 19:51:01  
**First Dose M/F:** NA / NA  
**Lab:** BNW

<b>C Number:</b>	C88006B
<b>Lock Date:</b>	03/23/2001
<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

**Experiment Number:** 88006-02

**Test Type:** 90-DAY

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ALPHA-METHYLSTYRENE**

**MALE MOUSE**

**Organ**

Liver: Centrilobular

Lung

Nose: Glands

Nose: Olfactory Epi

**FEMALE MOUSE**

**Organ**

Liver: Centrilobular

Nose: Glands

Nose: Olfactory Epi

Nose: Respirat Epith

**Morphology**

Hypertrophy

Hemorrhage

Atrophy

Hyperplasia

Atrophy

Metaplasia

**Morphology**

Hypertrophy

Hyperplasia

Atrophy

Necrosis

Atrophy

Metaplasia

Degeneration Hyaline

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Kidney: Renal Tubule</b>						
<b>Casts Protein</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (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)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

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 14286 WEEKS**

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Kidney: Renal Tubule Regeneration</b>						
<b>LESION RATES</b>						
OVERALL(a)	1/10 (10%)	0/0 (0%)	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	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	95(T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.269N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Liver</b>						
<b>Basophilic Focus</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	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	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	95(T)	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.448	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.448	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.448	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.447	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.356	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
Liver						
Necrosis						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	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	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.100	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.100	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.100	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.098	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.075	(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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Liver: Centrilobular Hypertrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	40%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	95(T)	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.033*	P=NA
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.033*	P=NA
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.033*	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.043*	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.007**	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Lung</b>						
<b>Hemorrhage</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/2.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	95(T)	---	---	---	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	P=NA	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	P=NA	(e)	(e)	(e)	P=0.227
POLY 6	(e)	P=NA	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.453	P=0.015*	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	P=0.000**	(e)	(e)	(e)	P=0.067
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						



Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Glands</b>						
<b>Atrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	7/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	70%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	7/10 (70%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95(T)	95(T)	95(T)	95(T)	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=0.000**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.002**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Glands</b>						
<b>Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	9/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	90%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95(T)	95(T)	95(T)	95(T)	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.000**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	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**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Olfactory Epi Atrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	10/10 (100%)	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	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95(T)	95(T)	95(T)	95(T)	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=NA	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**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Olfactory Epi Metaplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	5/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	50%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95(T)	95(T)	95(T)	95(T)	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.016*	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P<0.001**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 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%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	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)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Respirat Epith Degeneration Hyaline</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	1/10 (10%)	2/10 (20%)	1/10 (10%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	2/10.00	1/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	20%	10%	20%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	2/10 (20%)	1/10 (10%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	95(T)	95(T)	95(T)	95(T)	---
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.476N	P=0.500	P=0.227	P=0.500	P=0.227	(e)
POLY 1.5	P=0.476N	P=0.500	P=0.227	P=0.500	P=0.227	(e)
POLY 6	P=0.476N	P=0.500	P=0.227	P=0.500	P=0.227	(e)
COCH-ARM / FISHERS	P=0.475N	P=0.500	P=0.237	P=0.500	P=0.237	(e)
MAX-ISO-POLY-3	P=0.330	P=0.159	P=0.067	P=0.159	P=0.067	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Skin</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (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)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Forestomach</b>						
<b>Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95(T)
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.269	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Forestomach</b>						
<b>Ulcer</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (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)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Glandular</b>						
<b>Infiltration Cellular Polymorphnuclr</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (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)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Glandular Mineralization</b>						
<b>LESION RATES</b>						
OVERALL(a)	1/10 (10%)	0/0 (0%)	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	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	95(T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.269N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Kidney: Renal Tubule</b>						
<b>Casts Protein</b>						
<b>LESION RATES</b>						
OVERALL(a)	1/10 (10%)	0/0 (0%)	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	0/0.00	0/8.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	96(T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.544N
COCH-ARM / FISHERS	P=0.269N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.213N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Kidney: Renal Tubule Regeneration</b>						
<b>LESION RATES</b>						
OVERALL(a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/8.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	96(T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.142N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.141N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.142N
COCH-ARM / FISHERS	P=0.052N	(e)	(e)	(e)	(e)	P=0.105N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.060N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Liver</b>						
<b>Basophilic Focus</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	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	0/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
Liver						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	1/10.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	0/8 (0%)
FIRST INCIDENCE	---	---	96(T)	---	96(T)	---
STATISTICAL TESTS						
POLY 3	P=0.524	(e)	P=0.500	(e)	P=0.500	(e)
POLY 1.5	P=0.524	(e)	P=0.500	(e)	P=0.500	(e)
POLY 6	P=0.524	(e)	P=0.500	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.628	(e)	P=0.500	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.533	(e)	P=0.159	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Liver: Centrilobular Hypertrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	5/10.00	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	50%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	8/8 (100%)
FIRST INCIDENCE	---	---	---	---	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.008**	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.008**	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.008**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.016*	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
Lung						
Hemorrhage						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Glands</b>						
<b>Atrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	8/10 (80%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	8/10.00	9/10.00	10/10.00	10/10.00	8/8.00
POLY-3 PERCENT (g)	0%	80%	90%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	8/10 (80%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	---	96(T)	96(T)	96(T)	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.000**	P=0.000**	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	P=0.000**	P=0.000**	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	P=0.000**	P=0.000**	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.008**	P=0.000**	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Glands</b>						
<b>Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	5/10.00	10/10.00	10/10.00	10/10.00	8/8.00
POLY-3 PERCENT (g)	0%	50%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	5/10 (50%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	---	96(T)	96(T)	96(T)	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	P=0.008**	P=NA	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.002**	P=0.016*	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P<0.001**	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Olfactory Epi Atrophy</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00	8/8.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	---	96(T)	96(T)	96(T)	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=NA	P=NA	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	P=NA	P=NA	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	P=NA	P=NA	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.029*	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)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Olfactory Epi Metaplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	4/10 (40%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	4/10.00	9/10.00	10/10.00	10/10.00	8/8.00
POLY-3 PERCENT (g)	0%	40%	90%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	8/8 (100%)
FIRST INCIDENCE	---	96(T)	96(T)	96(T)	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.000**	P=0.033*	P=0.000**	P=NA	P=NA	P=0.000**
POLY 1.5	P=0.000**	P=0.033*	P=0.000**	P=NA	P=NA	P=0.000**
POLY 6	P=0.000**	P=0.033*	P=0.000**	P=NA	P=NA	P=0.000**
COCH-ARM / FISHERS	P<0.001**	P=0.043*	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.007**	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: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 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%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	3
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.008**	(e)	(e)	(e)	(e)	P=0.067
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Nose: Respirat Epith Degeneration Hyaline</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	2/10 (20%)	6/10 (60%)	9/10 (90%)	8/10 (80%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	2/10.00	6/10.00	9/10.00	8/10.00	4/8.00
POLY-3 PERCENT (g)	0%	20%	60%	90%	80%	50%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	6/10 (60%)	9/10 (90%)	8/10 (80%)	4/8 (50%)
FIRST INCIDENCE	---	96(T)	96(T)	96(T)	96(T)	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	P=0.002**	P=0.227	P<0.001**	P=0.000**	P=0.000**	P=0.013*
POLY 1.5	P=0.002**	P=0.227	P<0.001**	P=0.000**	P=0.000**	P=0.013*
POLY 6	P=0.002**	P=0.227	P<0.001**	P=0.000**	P=0.000**	P=0.013*
COCH-ARM / FISHERS	P=0.061	P=0.237	P=0.005**	P=0.000**	P=0.000**	P=0.043*
MAX-ISO-POLY-3	P<0.001**	P=0.067	P=0.000**	P=0.000**	P=0.000**	P=0.005**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Skin</b>						
<b>Infiltration Cellular Mixed Cell</b>						
<b>LESION RATES</b>						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/8.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	12.5%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/8 (12%)
FIRST INCIDENCE	96(T)	---	---	---	---	96(T)
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.709
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.709
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.709
COCH-ARM / FISHERS	P=0.617	(e)	(e)	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.443
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						



Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Forestomach</b>						
<b>Hyperplasia</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Forestomach</b>						
<b>Ulcer</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	3
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.269	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Glandular</b>						
<b>Infiltration Cellular Polymorphnuclr</b>						
<b>LESION RATES</b>						
OVERALL(a)	1/10 (10%)	0/0 (0%)	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	0/0.00	0/8.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	96(T)	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.544N
COCH-ARM / FISHERS	P=0.269N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.213N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 88006-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/16/2014

Time Report Requested: 19:51:01

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE					
	CONTROL	75 PPM	150 PPM	300 PPM	600 PPM	1000 PPM
<b>Stomach, Glandular Mineralization</b>						
<b>LESION RATES</b>						
OVERALL(a)	0/10 (0%)	0/0 (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	0/0.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
<b>STATISTICAL TESTS</b>						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

**Experiment Number:** 88006-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** alpha-Methylstyrene

**CAS Number:** 98-83-9

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 19:51:01

**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 \*\***