

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

F1_Rev.1_HSD

NTP Study Number: C20727
Lock Date: 08/21/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 11/01/2011

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ORTHO-PHTHALALDEHYDE

MALE RATS

Organ

Epididymis: Duct
Epididymis: Epithelium
Eye: Anterior Chamber
Eye: Cornea

Heart
Kidney
Larynx

Liver
Lung: Alveolus

Lung: Bronchus

Lung: Perivascular
Nose
Nose: Goblet Cell, Respiratory Epithelium
Nose: Olfactory Epithelium

Nose: Olfactory Epithelium, Glands
Nose: Respiratory Epithelium

Morphology

Exfoliated Germ Cell
Apoptosis
Inflammation
Hyperplasia
Inflammation
Necrosis
Congestion
Nephropathy
Inflammation Chronic
Metaplasia
Necrosis
Regeneration
Hepatodiaphragmatic Nodule
Infiltration Cellular Histiocyte
Inflammation
Fibrosis
Hyperplasia
Inflammation Chronic
Metaplasia
Necrosis
Regeneration
Inflammation Chronic
Inflammation
Hyperplasia
Accumulation, Hyaline Droplet
Atrophy
Metaplasia
Metaplasia Respiratory
Necrosis
Regeneration
Hyperplasia
Hyperplasia

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF ORTHO-PHTHALALDEHYDE

Nose: Turbinate
Skin: Adnexa
Skin: Hair Follicle, Epithelium
Spleen
Testes

Testes: Elongated Spermatid
Testes: Germinal Epithelium
Testes: Interstitial Cell
Testes: Round Spermatid
Testes: Seminiferous Tubule
Thymus
Trachea

Metaplasia
Necrosis
Regeneration
Atrophy
Degeneration
Parakeratosis
Atrophy Lymphoid
Exfoliated Germ Cell Focal
Immature
Degeneration
Apoptosis
Atrophy
Degeneration
Vacuolation
Atrophy Lymphoid
Fibrosis
Inflammation Chronic
Metaplasia
Necrosis
Regeneration
Ulcer

FEMALE RATS

Organ

Eye: Anterior Chamber
Eye: Cornea

Heart
Kidney
Larynx

Lung: Alveolus

Morphology

Inflammation
Inflammation
Necrosis
Cardiomyopathy
Nephropathy
Inflammation Chronic
Metaplasia
Necrosis
Regeneration
Infiltration Cellular Histiocyte
Inflammation

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF ORTHO-PHTHALALDEHYDE

Lung: Bronchus	Fibrosis Hyperplasia Inflammation Chronic Metaplasia Necrosis Regeneration
Lung: Interstitium	Fibrosis Inflammation Granulomatous
Lung: Perivascular	Inflammation Chronic
Nose	Inflammation
Nose: Olfactory Epithelium	Accumulation, Hyaline Droplet Atrophy Metaplasia Respiratory
Nose: Olfactory Epithelium, Glands	Hyperplasia
Nose: Respiratory Epithelium	Accumulation, Hyaline Droplet Hyperplasia Metaplasia Necrosis Regeneration
Nose: Turbinate	Atrophy
Skin: Adnexa	Degeneration
Skin: Hair Follicle, Epithelium	Parakeratosis
Spleen	Atrophy Lymphoid
Stomach, Glandular	Ulcer
Thymus	Atrophy Lymphoid
Trachea	Fibrosis Inflammation Chronic Metaplasia Necrosis Regeneration
Uterus	Ulcer Decidual Reaction

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Bone: Maxilla Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/3.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.9%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	10
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.246
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.196	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.134

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Epididymis						
Hypospermia						
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	1/4.20	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	23.8%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	39	---
STATISTICAL TESTS						
POLY 3	P=0.249	(e)	P=0.500	(e)	P=0.347	(e)
POLY 1.5	P=0.233	(e)	P=0.500	(e)	P=0.362	(e)
POLY 6	P=0.256	(e)	P=0.500	(e)	P=0.341	(e)
COCH-ARM / FISHERS	P=0.685N	(e)	P=0.500	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.457	(e)	P=0.158	(e)	P=0.148	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Epididymis						
Infiltration Cellular Mononuclear Cell						
LESION RATES						
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	0/3.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	7
STATISTICAL TESTS						
POLY 3	P=0.394	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	P=0.367	(e)	(e)	(e)	(e)	P=0.247
POLY 6	P=0.392	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.068	(e)	(e)	(e)	(e)	P=0.134

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Epididymis: Duct Exfoliated Germ Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	5/7.07	4/4.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	70.7%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	3	5
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	P=0.016*	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.158	P<0.001**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Epididymis: Epithelium Apoptosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/6.28	5/5.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	47.8%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.031*	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.039*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.028*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.016*	P<0.001**

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Anterior Chamber Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	4/7.07	5/5.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	56.6%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.007**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.008**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.007**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.043*	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.004**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea Hyperplasia						
LESION RATES						
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	0/3.28	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	7
STATISTICAL TESTS						
POLY 3	P=0.026*	(e)	(e)	(e)	(e)	P=0.040*
POLY 1.5	P=0.028*	(e)	(e)	(e)	(e)	P=0.041*
POLY 6	P=0.025*	(e)	(e)	(e)	(e)	P=0.040*
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.006**	(e)	(e)	(e)	(e)	P=0.036*

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea Inflammation						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	6/10 (60%)
POLY-3 RATE (b)	1/10.00	1/10.00	1/10.00	1/10.00	5/8.00	6/6.00
POLY-3 PERCENT (g)	10%	10%	10%	10%	62.5%	100%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	3	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.760	P=0.760	P=0.760	P=0.021*	P<0.001**
POLY 1.5	P<0.001**	P=0.760	P=0.760	P=0.760	P=0.022*	P<0.001**
POLY 6	P<0.001**	P=0.760	P=0.760	P=0.760	P=0.021*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.763N	P=0.763N	P=0.763N	P=0.070	P=0.029*
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=1.000	P=1.000	P=0.010**	P<0.001**

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	2/10 (20%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	2/5.20	4/4.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	38.4%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P=0.105	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P=0.116	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	(e)	P=0.101	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.237	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P=0.054	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/1 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/1.00	1/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/1 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.913N	P=0.760	P=0.673N	P=0.760N
POLY 1.5	(e)	(e)	P=0.913N	P=0.760	P=0.654N	P=0.757N
POLY 6	(e)	(e)	P=0.913N	P=0.760	P=0.680N	P=0.760N
COCH-ARM / FISHERS	P=0.239N	(e)	P=0.909N	P=0.763N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.411N	P=1.000	P=0.372N	P=0.499N

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 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Heart Congestion						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 1.5	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 6	(e)	(e)	P=0.091	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.441N	(e)	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	P<0.001**	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Intestine Small, Ileum Diverticulum						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/8 (13%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/3.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	3
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.229
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.232
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.229
COCH-ARM / FISHERS	P=0.165	(e)	(e)	(e)	(e)	P=0.444
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.119

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	10/10 (100%)	10/10 (100%)	9/10 (90%)	7/10 (70%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	10/10.00	10/10.00	9/10.00	7/10.00	1/3.28	2/2.00
POLY-3 PERCENT (g)	100%	100%	90%	70%	30.5%	99.9%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	9/10 (90%)	7/10 (70%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	3
STATISTICAL TESTS						
POLY 3	P=0.011N*	(e)	P=0.500N	P=0.095N	P=0.026N*	P=1.000N
POLY 1.5	P=0.003N**	(e)	P=0.500N	P=0.095N	P=0.002N**	P=1.000N
POLY 6	P=0.016N*	(e)	P=0.500N	P=0.095N	P=0.054N	P=1.000N
COCH-ARM / FISHERS	P<0.001N**	(e)	P=0.500N	P=0.105N	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P=0.019N*	(e)	P=0.158N	P=0.024N*	P=0.021N*	P=0.031N*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	2/10 (20%)	8/10 (80%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	2/10.00	8/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	10%	20%	80%	100%	100%	100%
TERMINAL (d)	1/10 (10%)	2/10 (20%)	8/10 (80%)	10/10 (100%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.003**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.274	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	8/10 (80%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	8/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	80%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	8/10 (80%)	10/10 (100%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P<0.001**	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	5/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	10%	50%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P=0.008**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.016*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.002**	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/10 (20%)	2/10 (20%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00	2/10.00	2/5.28	6/6.00
POLY-3 PERCENT (g)	0%	0%	30%	20%	37.9%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/10 (20%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.095	P=0.227	P=0.107	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.095	P=0.227	P=0.122	P<0.001**
POLY 6	P<0.001**	(e)	P=0.095	P=0.227	P=0.101	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.105	P=0.237	P=0.237	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.024*	P=0.067	P=0.054	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Ulcer						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/10.00	1/4.20	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	23.8%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.347	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.362	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.341	(e)
COCH-ARM / FISHERS	P=0.687	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.148	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.376N	P=0.091	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver: Hepatocyte Degeneration Focal						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/1.00	0/0.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.913N	(e)	P=0.500N	P=0.673N	P=0.760N
POLY 1.5	(e)	P=0.913N	(e)	P=0.500N	P=0.654N	P=0.757N
POLY 6	(e)	P=0.913N	(e)	P=0.500N	P=0.680N	P=0.760N
COCH-ARM / FISHERS	P=0.313N	P=0.909N	(e)	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	P=0.411N	(e)	P=0.158N	P=0.372N	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Alveolus Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)	9/10 (90%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	3/10.00	9/9.00	1/1.00
POLY-3 PERCENT (g)	0%	10%	0%	30%	100%	99.9%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	93 (T)	4	10
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	(e)	P=0.095	P<0.001**	P=0.243
POLY 1.5	P<0.001**	P=0.500	(e)	P=0.095	P<0.001**	P=0.246
POLY 6	P<0.001**	P=0.500	(e)	P=0.095	P<0.001**	P=0.243
COCH-ARM / FISHERS	P=0.085	P=0.500	(e)	P=0.105	P<0.001**	P=0.500
MAX-ISO-POLY-3	P<0.001**	P=0.158	(e)	P=0.024*	P<0.001**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Alveolus Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/6.28	6/6.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	47.8%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	4	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.031*	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.039*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.028*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.016*	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	2/5.08	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	39.4%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	39	10
STATISTICAL TESTS						
POLY 3	P=0.008**	(e)	(e)	P=0.500	P=0.102	P=0.243
POLY 1.5	P=0.008**	(e)	(e)	P=0.500	P=0.108	P=0.246
POLY 6	P=0.008**	(e)	(e)	P=0.500	P=0.101	P=0.243
COCH-ARM / FISHERS	P=0.143	(e)	(e)	P=0.500	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.014*	(e)	(e)	P=0.158	P=0.053	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	5/10 (50%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	5/6.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	83.3%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	39	7
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P=0.243
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P=0.247
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P=0.243
COCH-ARM / FISHERS	P=0.098	(e)	(e)	P=0.237	P=0.016*	P=0.500
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	P<0.001**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	9/9.00	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	4	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.105	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.024*	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	6/10 (60%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	7/10.00	6/6.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	70%	100%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	39	7
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P=0.243
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P=0.247
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P=0.243
COCH-ARM / FISHERS	P=0.192	(e)	(e)	P=0.002**	P=0.005**	P=0.500
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	5/7.07	7/7.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	70.7%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	4	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.016*	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/4.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	70.1%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	4	10
STATISTICAL TESTS						
POLY 3	P=0.003**	(e)	(e)	(e)	P=0.010**	P=0.243
POLY 1.5	P=0.002**	(e)	(e)	(e)	P=0.015*	P=0.246
POLY 6	P=0.003**	(e)	(e)	(e)	P=0.009**	P=0.243
COCH-ARM / FISHERS	P=0.074	(e)	(e)	(e)	P=0.105	P=0.500
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	P=0.010**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus, Goblet Cell Hyperplasia						
LESION RATES						
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	1/4.15	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	24.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	47	---
STATISTICAL TESTS						
POLY 3	P=0.171	(e)	(e)	(e)	P=0.345	(e)
POLY 1.5	P=0.145	(e)	(e)	(e)	P=0.359	(e)
POLY 6	P=0.180	(e)	(e)	(e)	P=0.341	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.314	(e)	(e)	(e)	P=0.147	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Interstitium Fibrosis						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Interstitium Inflammation Granulomatous						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Perivascular Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	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	0/10.00	2/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	61%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.055	(e)	(e)	(e)	P=0.063	(e)
POLY 1.5	P=0.031*	(e)	(e)	(e)	P=0.076	(e)
POLY 6	P=0.070	(e)	(e)	(e)	P=0.059	(e)
COCH-ARM / FISHERS	P=0.414	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.099	(e)	(e)	(e)	P=0.044*	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lymph Node Pigmentation						
LESION RATES						
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Mesentery: Fat Degeneration						
LESION RATES						
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose						
Foreign Body						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose Inflammation						
LESION RATES						
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%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose						
Synechia						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Goblet Cell, Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	4/10 (40%)	6/10 (60%)	2/10 (20%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	4/10.00	6/10.00	2/10.00	0/3.28	1/1.00
POLY-3 PERCENT (g)	0%	40%	60%	20%	0%	99.8%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	6/10 (60%)	2/10 (20%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	---	6
STATISTICAL TESTS						
POLY 3	P=0.403	P=0.033*	P<0.001**	P=0.227	(e)	P=0.243
POLY 1.5	P=0.477	P=0.033*	P<0.001**	P=0.227	(e)	P=0.247
POLY 6	P=0.376	P=0.033*	P<0.001**	P=0.227	(e)	P=0.243
COCH-ARM / FISHERS	P=0.093N	P=0.043*	P=0.005**	P=0.237	(e)	P=0.500
MAX-ISO-POLY-3	P=0.491	P=0.007**	P<0.001**	P=0.067	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	9/10 (90%)	10/10 (100%)	9/10 (90%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	9/10.00	10/10.00	9/10.00	1/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	90%	100%	90%	10%	0%	0%
TERMINAL (d)	9/10 (90%)	10/10 (100%)	9/10 (90%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P<0.001N**	P=0.500	P=0.760	P<0.001N**	P=0.015N*	P=0.759N
POLY 1.5	P<0.001N**	P=0.500	P=0.760	P<0.001N**	P=0.002N**	P=0.708N
POLY 6	P<0.001N**	P=0.500	P=0.760	P<0.001N**	P=0.027N*	P=0.760N
COCH-ARM / FISHERS	P<0.001N**	P=0.500	P=0.763N	P<0.001N**	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.158	P=1.000	P<0.001N**	P=0.018N*	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Atrophy						
LESION RATES						
OVERALL (a)	2/10 (20%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	7/10 (70%)	6/10 (60%)
POLY-3 RATE (b)	2/10.00	10/10.00	10/10.00	10/10.00	7/7.00	6/6.00
POLY-3 PERCENT (g)	20%	100%	100%	100%	100%	100%
TERMINAL (d)	2/10 (20%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	10	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.363N	P<0.001**	P<0.001**	P<0.001**	P=0.035*	P=0.085
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	1/3.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	30.5%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	93 (T)	10
STATISTICAL TESTS						
POLY 3	P=0.045*	(e)	(e)	P=0.500	P=0.317	P=0.243
POLY 1.5	P=0.042*	(e)	(e)	P=0.500	P=0.339	P=0.246
POLY 6	P=0.046*	(e)	(e)	P=0.500	P=0.309	P=0.243
COCH-ARM / FISHERS	P=0.180	(e)	(e)	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.080	(e)	(e)	P=0.158	P=0.145	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	6/10 (60%)	6/10 (60%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	1/10.00	6/10.00	6/10.00	2/3.28	0/0.00
POLY-3 PERCENT (g)	10%	10%	60%	60%	61%	0%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	6/10 (60%)	6/10 (60%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	---
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.760	P=0.018*	P=0.018*	P=0.181	P=0.760N
POLY 1.5	P=0.002**	P=0.760	P=0.018*	P=0.018*	P=0.216	P=0.757N
POLY 6	P<0.001**	P=0.760	P=0.018*	P=0.018*	P=0.169	P=0.760N
COCH-ARM / FISHERS	P=0.086N	P=0.763N	P=0.029*	P=0.029*	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.002**	P=1.000	P=0.005**	P=0.005**	P=0.130	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	3/6.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	50%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	39	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P=0.027*	(e)
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P=0.028*	(e)
POLY 6	P<0.001**	(e)	(e)	P=0.500	P=0.027*	(e)
COCH-ARM / FISHERS	P=0.377	(e)	(e)	P=0.500	P=0.105	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P=0.015*	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	4/6.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	66.7%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	39	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P=0.003**	(e)
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P=0.003**	(e)
POLY 6	P<0.001**	(e)	P=0.500	(e)	P=0.003**	(e)
COCH-ARM / FISHERS	P=0.362	(e)	P=0.500	(e)	P=0.043*	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P=0.002**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium, Glands Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	2/4.28	3/3.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	46.8%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	10	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P=0.084	P=0.003**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P=0.098	P=0.004**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P=0.079	P=0.003**
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	P=0.237	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P=0.050*	P=0.006**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	1/10.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	10%	0%	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.344N	P=0.500N	P=0.760	P=0.500N	P=0.673N	P=0.760N
POLY 1.5	P=0.330N	P=0.500N	P=0.760	P=0.500N	P=0.654N	P=0.757N
POLY 6	P=0.349N	P=0.500N	P=0.760	P=0.500N	P=0.680N	P=0.760N
COCH-ARM / FISHERS	P=0.285N	P=0.500N	P=0.763N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.620N	P=0.158N	P=1.000	P=0.158N	P=0.372N	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	3/10 (30%)	9/10 (90%)	9/10 (90%)	7/10 (70%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	9/10.00	9/10.00	7/10.00	3/4.15	0/0.00
POLY-3 PERCENT (g)	30%	90%	90%	70%	72.3%	0%
TERMINAL (d)	3/10 (30%)	9/10 (90%)	9/10 (90%)	7/10 (70%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	47	---
STATISTICAL TESTS						
POLY 3	P=0.113	P=0.003**	P=0.003**	P=0.082	P=0.231	P=0.678N
POLY 1.5	P=0.168	P=0.003**	P=0.003**	P=0.082	P=0.273	P=0.667N
POLY 6	P=0.100	P=0.003**	P=0.003**	P=0.082	P=0.219	P=0.678N
COCH-ARM / FISHERS	P<0.001N**	P=0.010**	P=0.010**	P=0.089	P=0.686N	P=0.105N
MAX-ISO-POLY-3	P=0.206N	P<0.001**	P<0.001**	P=0.032*	P=0.173	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Metaplasia						
LESION RATES						
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%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.063	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	30%	50%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.105	P=0.016*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.024*	P=0.002**	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	3/6.28	6/6.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	47.8%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P=0.031*	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P=0.039*	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	(e)	P=0.028*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.105	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P=0.016*	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.522N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.502N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.530N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.488N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.833N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Turbinate Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	7/10.00	10/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	70%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P<0.001**	P<0.001**	(e)	(e)
POLY 1.5	P<0.001**	(e)	P<0.001**	P<0.001**	(e)	(e)
POLY 6	P<0.001**	(e)	P<0.001**	P<0.001**	(e)	(e)
COCH-ARM / FISHERS	P=0.060N	(e)	P=0.002**	P<0.001**	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	P<0.001**	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Penis Inflammation						
LESION RATES						
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	1/1.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Preputial Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/9.00	1/4.20	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	23.8%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.521N	P=0.550	P=0.760N
POLY 1.5	(e)	(e)	(e)	P=0.521N	P=0.575	P=0.757N
POLY 6	(e)	(e)	(e)	P=0.521N	P=0.540	P=0.760N
COCH-ARM / FISHERS	P=0.397N	(e)	(e)	P=0.526N	P=0.763N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.178N	P=0.335	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Prostate Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	(e)	(e)	(e)	P=0.500	(e)	(e)
POLY 6	(e)	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.568N	(e)	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Seminal Vesicle Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	1/4.20	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	23.8%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.347	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.362	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.341	(e)
COCH-ARM / FISHERS	P=0.696	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.148	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin						
Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/4.20	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	23.8%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	4
STATISTICAL TESTS						
POLY 3	P=0.105	(e)	(e)	(e)	P=0.347	P=0.243
POLY 1.5	P=0.088	(e)	(e)	(e)	P=0.362	P=0.247
POLY 6	P=0.109	(e)	(e)	(e)	P=0.341	P=0.243
COCH-ARM / FISHERS	P=0.103	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.186	(e)	(e)	(e)	P=0.148	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin Inflammation						
LESION RATES						
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	1/4.15	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	24.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	47	---
STATISTICAL TESTS						
POLY 3	P=0.171	(e)	(e)	(e)	P=0.345	(e)
POLY 1.5	P=0.145	(e)	(e)	(e)	P=0.359	(e)
POLY 6	P=0.180	(e)	(e)	(e)	P=0.341	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.314	(e)	(e)	(e)	P=0.147	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Adnexa Degeneration						
LESION RATES						
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	4/7.28	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	55%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.012*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.007**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.043*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.004**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Hair Follicle Atrophy						
LESION RATES						
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	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Hair Follicle, Epithelium Parakeratosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	7/10 (70%)	4/10 (40%)	7/10 (70%)	3/10 (30%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	7/10.00	4/10.00	7/10.00	3/5.15	10/10.00
POLY-3 PERCENT (g)	0%	70%	40%	70%	58.3%	100%
TERMINAL (d)	0/10 (0%)	7/10 (70%)	4/10 (40%)	7/10 (70%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P=0.033*	P<0.001**	P=0.018*	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P=0.033*	P<0.001**	P=0.022*	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.033*	P<0.001**	P=0.016*	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.002**	P=0.043*	P=0.002**	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P=0.007**	P<0.001**	P=0.013*	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Spleen						
Atrophy Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/9.00	0/10.00	0/10.00	6/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	66.7%	100%
TERMINAL (d)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	4	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.005**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Forestomach Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/3.28	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	7
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.247
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.196	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Forestomach Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	(e)	(e)	(e)	P=0.500	(e)	(e)
POLY 6	(e)	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.568N	(e)	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Glandular Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes						
Exfoliated Germ Cell Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/4.28	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	23.4%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10	7
STATISTICAL TESTS						
POLY 3	P=0.012*	(e)	(e)	(e)	P=0.349	P=0.040*
POLY 1.5	P=0.011*	(e)	(e)	(e)	P=0.370	P=0.041*
POLY 6	P=0.012*	(e)	(e)	(e)	P=0.341	P=0.040*
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.021*	(e)	(e)	(e)	P=0.148	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes						
Immature						
LESION RATES						
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	4/7.28	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	55%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.012*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.007**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.043*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.004**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Elongated Spermatid Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	4/6.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	66.7%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.003**	(e)
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.003**	(e)
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.003**	(e)
COCH-ARM / FISHERS	P=0.245	(e)	(e)	(e)	P=0.043*	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.002**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Germinal Epithelium Apoptosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	4/6.07	6/6.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	65.9%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.004**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.043*	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.002**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Germinal Epithelium						
Atrophy Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.731	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.733	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.730	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.561N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.833	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Germinal Epithelium Degeneration Focal						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	1/10.00	0/3.28	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.656	P=0.500N	P=0.500N	P=0.760	P=0.673N	P=0.760N
POLY 1.5	P=0.670	P=0.500N	P=0.500N	P=0.760	P=0.654N	P=0.757N
POLY 6	P=0.651	P=0.500N	P=0.500N	P=0.760	P=0.680N	P=0.760N
COCH-ARM / FISHERS	P=0.380N	P=0.500N	P=0.500N	P=0.763N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.833N	P=0.158N	P=0.158N	P=1.000	P=0.372N	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Interstitial Cell Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	70%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Round Spermatid Degeneration						
LESION RATES						
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	0/3.28	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	6
STATISTICAL TESTS						
POLY 3	P=0.026*	(e)	(e)	(e)	(e)	P=0.040*
POLY 1.5	P=0.027*	(e)	(e)	(e)	(e)	P=0.042*
POLY 6	P=0.025*	(e)	(e)	(e)	(e)	P=0.040*
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.006**	(e)	(e)	(e)	(e)	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Testes: Seminiferous Tubule Vacuolation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/5.08	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	59.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.017*	(e)
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.019*	(e)
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.016*	(e)
COCH-ARM / FISHERS	P=0.314	(e)	(e)	(e)	P=0.105	(e)
MAX-ISO-POLY-3	P=0.002**	(e)	(e)	(e)	P=0.012*	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Thymus Atrophy Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	8/9.00	7/7.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	88.9%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	5/10.00	3/5.08	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	50%	59.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	39	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.008**	P=0.017*	(e)
POLY 1.5	P<0.001**	(e)	(e)	P=0.008**	P=0.019*	(e)
POLY 6	P<0.001**	(e)	(e)	P=0.008**	P=0.016*	(e)
COCH-ARM / FISHERS	P=0.537	(e)	(e)	P=0.016*	P=0.105	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.002**	P=0.012*	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	8/10 (80%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	8/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	40%	80%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	8/10 (80%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.043*	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**	P<0.001**	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	6/10 (60%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	10/10.00	6/6.00	6/6.00
POLY-3 PERCENT (g)	0%	0%	40%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	3/3 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	39	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.033*	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.005**	(e)	P=0.043*	P<0.001**	P=0.005**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**	(e)	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	8/10 (80%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	8/9.07	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	88.2%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	2/3 (67%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.095	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.105	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.024*	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	7/10 (70%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	7/10.00	7/9.00	6/6.00
POLY-3 PERCENT (g)	0%	0%	0%	70%	77.8%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	1/3 (33%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	3	3
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.002**	P=0.002**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20727 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea						
Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/4.20	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	23.8%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	39	3
STATISTICAL TESTS						
POLY 3	P=0.012*	(e)	(e)	(e)	P=0.347	P=0.040*
POLY 1.5	P=0.010**	(e)	(e)	(e)	P=0.362	P=0.042*
POLY 6	P=0.012*	(e)	(e)	(e)	P=0.341	P=0.040*
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.021*	(e)	(e)	(e)	P=0.148	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Bone: Maxilla Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Anterior Chamber Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/8.13	5/5.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	12.3%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.459	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.466	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.456	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.156	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea Hyperplasia						
LESION RATES						
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	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	6
STATISTICAL TESTS						
POLY 3	P=0.529	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	P=0.512	(e)	(e)	(e)	(e)	P=0.247
POLY 6	P=0.523	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.068	(e)	(e)	(e)	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	1/8.13	8/8.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	12.3%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P=0.459	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P=0.466	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	(e)	P=0.456	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P=0.156	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Eye: Cornea						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/8.13	7/7.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.9%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.040*
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.042*
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.040*
COCH-ARM / FISHERS	P=0.089	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Heart Congestion						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.7%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	4
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.248
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Intestine Small, Ileum Diverticulum						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	6/10 (60%)	5/10 (50%)	4/9 (44%)	5/10 (50%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	6/10.00	5/10.00	4/9.00	5/10.00	1/9.12	2/2.00
POLY-3 PERCENT (g)	60%	50%	44.4%	50%	11%	99.9%
TERMINAL (d)	6/10 (60%)	5/10 (50%)	4/9 (44%)	5/10 (50%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	16	5
STATISTICAL TESTS						
POLY 3	P=0.062N	P=0.500N	P=0.417N	P=0.500N	P=0.028N*	P=0.435
POLY 1.5	P=0.057N	P=0.500N	P=0.417N	P=0.500N	P=0.025N*	P=0.462
POLY 6	P=0.066N	P=0.500N	P=0.417N	P=0.500N	P=0.030N*	P=0.435
COCH-ARM / FISHERS	P=0.019N*	P=0.500N	P=0.414N	P=0.500N	P=0.029N*	P=0.085N
MAX-ISO-POLY-3	P=0.111	P=0.334N	P=0.263N	P=0.334N	P=0.010N**	P=0.318

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	9/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	10%	90%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	9/10 (90%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.500	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.158	P<0.001**	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	4/10 (40%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	4/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	40%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	4/10 (40%)	10/10 (100%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.033*	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.033*	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.043*	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.007**	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	7/10.00	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	70%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/8 (63%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	3/10.00	1/9.12	2/2.00
POLY-3 PERCENT (g)	0%	0%	10%	30%	11%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P=0.051	(e)	P=0.500	P=0.095	P=0.482	P=0.040*
POLY 1.5	P=0.054	(e)	P=0.500	P=0.095	P=0.487	P=0.042*
POLY 6	P=0.049*	(e)	P=0.500	P=0.095	P=0.479	P=0.040*
COCH-ARM / FISHERS	P=0.156	(e)	P=0.500	P=0.105	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.091	(e)	P=0.158	P=0.024*	P=0.157	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Larynx Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.594	(e)	P=0.500	P=0.500	(e)	(e)
POLY 1.5	P=0.615	(e)	P=0.500	P=0.500	(e)	(e)
POLY 6	P=0.586	(e)	P=0.500	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.833	(e)	P=0.158	P=0.158	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Liver: Hepatocyte Degeneration Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Alveolus Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	0/10 (0%)	2/10 (20%)	1/10 (10%)	3/10 (30%)	9/10 (90%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	2/10.00	1/10.00	3/10.00	9/10.00	3/3.00
POLY-3 PERCENT (g)	0%	20%	10%	30%	90%	100%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	1/10 (10%)	3/10 (30%)	7/8 (88%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	6
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227	P=0.500	P=0.095	P<0.001**	P=0.003**
POLY 1.5	P<0.001**	P=0.227	P=0.500	P=0.095	P<0.001**	P=0.004**
POLY 6	P<0.001**	P=0.227	P=0.500	P=0.095	P<0.001**	P=0.003**
COCH-ARM / FISHERS	P=0.023*	P=0.237	P=0.500	P=0.105	P<0.001**	P=0.105
MAX-ISO-POLY-3	P<0.001**	P=0.067	P=0.158	P=0.024*	P<0.001**	P=0.006**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Alveolus Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	4/4.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.237	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.067	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	1/8.13	3/3.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	12.3%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	93 (T)	5
STATISTICAL TESTS						
POLY 3	P=0.002**	(e)	(e)	P=0.500	P=0.459	P=0.003**
POLY 1.5	P=0.003**	(e)	(e)	P=0.500	P=0.466	P=0.004**
POLY 6	P=0.002**	(e)	(e)	P=0.500	P=0.456	P=0.003**
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	P=0.158	P=0.156	P=0.006**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	6/10 (60%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	6/10.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	60%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	4/8 (50%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	16	9
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P=0.243
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P=0.247
POLY 6	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P=0.243
COCH-ARM / FISHERS	P=0.059	(e)	(e)	P=0.500	P=0.005**	P=0.500
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P<0.001**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.237	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	9/10 (90%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	9/9.01	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	99.9%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	46	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.122	(e)	(e)	P=0.237	P<0.001**	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/9.01	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	22.2%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	46	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.202	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.203	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.202	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.237	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.065	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/8.13	5/5.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	12.3%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.459	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.466	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.456	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.156	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Bronchus, Goblet Cell Hyperplasia						
LESION RATES						
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	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Interstitium Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	2/9.12	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	21.9%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	16	---
STATISTICAL TESTS						
POLY 3	P=0.045*	(e)	P=0.500	(e)	P=0.205	(e)
POLY 1.5	P=0.047*	(e)	P=0.500	(e)	P=0.210	(e)
POLY 6	P=0.045*	(e)	P=0.500	(e)	P=0.202	(e)
COCH-ARM / FISHERS	P=0.564	(e)	P=0.500	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.081	(e)	P=0.158	(e)	P=0.065	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Interstitium Inflammation Granulomatous						
LESION RATES						
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	0/8.13	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	9
STATISTICAL TESTS						
POLY 3	P=0.119	(e)	(e)	(e)	(e)	P=0.040*
POLY 1.5	P=0.117	(e)	(e)	(e)	(e)	P=0.042*
POLY 6	P=0.116	(e)	(e)	(e)	(e)	P=0.040*
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.006**	(e)	(e)	(e)	(e)	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lung: Perivascular Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	6/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	73.8%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	6/8 (75%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	93 (T)	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	(e)
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	(e)
POLY 6	P<0.001**	(e)	P=0.500	P=0.500	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.275	(e)	P=0.500	P=0.500	P=0.005**	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.158	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Lymph Node Pigmentation						
LESION RATES						
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Mesentery: Fat Degeneration						
LESION RATES						
OVERALL (a)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/1.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose						
Foreign Body						
LESION RATES						
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	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	6
STATISTICAL TESTS						
POLY 3	P=0.529	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	P=0.512	(e)	(e)	(e)	(e)	P=0.247
POLY 6	P=0.523	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.068	(e)	(e)	(e)	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose Inflammation						
LESION RATES						
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%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose						
Synechia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.524	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	P=0.547	(e)	(e)	P=0.500	(e)	(e)
POLY 6	P=0.515	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.699N	(e)	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.833	(e)	(e)	P=0.158	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Goblet Cell, Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	99.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	6
STATISTICAL TESTS						
POLY 3	P=0.359	(e)	(e)	P=0.500	(e)	P=0.243
POLY 1.5	P=0.359	(e)	(e)	P=0.500	(e)	P=0.247
POLY 6	P=0.352	(e)	(e)	P=0.500	(e)	P=0.243
COCH-ARM / FISHERS	P=0.229	(e)	(e)	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.192	(e)	(e)	P=0.158	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	9/10 (90%)	10/10 (100%)	8/10 (80%)	4/10 (40%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	9/10.00	10/10.00	8/10.00	4/10.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	90%	100%	80%	40%	0%	0%
TERMINAL (d)	9/10 (90%)	10/10 (100%)	8/10 (80%)	4/10 (40%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P<0.001N**	P=0.500	P=0.500N	P=0.018N*	P<0.001N**	P=0.759N
POLY 1.5	P<0.001N**	P=0.500	P=0.500N	P=0.018N*	P<0.001N**	P=0.698N
POLY 6	P<0.001N**	P=0.500	P=0.500N	P=0.018N*	P<0.001N**	P=0.760N
COCH-ARM / FISHERS	P<0.001N**	P=0.500	P=0.500N	P=0.029N*	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.158	P=0.274N	P=0.005N**	P<0.001N**	P=0.498N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	9/10.00	10/10.00	10/10.00	10/10.00	7/7.00
POLY-3 PERCENT (g)	0%	90%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.141	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	(e)	(e)	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.524	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	P=0.547	(e)	(e)	P=0.500	(e)	(e)
POLY 6	P=0.515	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.699N	(e)	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.833	(e)	(e)	P=0.158	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	2/10 (20%)	5/10 (50%)	7/10 (70%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	2/10.00	5/10.00	7/8.13	1/1.00
POLY-3 PERCENT (g)	0%	10%	20%	50%	86.1%	99.7%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	2/10 (20%)	5/10 (50%)	7/8 (88%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	93 (T)	6
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.227	P=0.008**	P<0.001**	P=0.243
POLY 1.5	P<0.001**	P=0.500	P=0.227	P=0.008**	P<0.001**	P=0.247
POLY 6	P<0.001**	P=0.500	P=0.227	P=0.008**	P<0.001**	P=0.243
COCH-ARM / FISHERS	P=0.292	P=0.500	P=0.237	P=0.016*	P=0.002**	P=0.500
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.067	P=0.002**	P<0.001**	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium 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	1/9.12	0/0.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	11%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	16	---
STATISTICAL TESTS						
POLY 3	P=0.268	(e)	P=0.500	(e)	P=0.482	(e)
POLY 1.5	P=0.275	(e)	P=0.500	(e)	P=0.487	(e)
POLY 6	P=0.266	(e)	P=0.500	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.685N	(e)	P=0.500	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.492	(e)	P=0.158	(e)	P=0.157	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium Regeneration						
LESION RATES						
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	1/9.01	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	11.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	46	---
STATISTICAL TESTS						
POLY 3	P=0.112	(e)	(e)	(e)	P=0.479	(e)
POLY 1.5	P=0.113	(e)	(e)	(e)	P=0.481	(e)
POLY 6	P=0.112	(e)	(e)	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.204	(e)	(e)	(e)	P=0.157	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Olfactory Epithelium, Glands Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	2/10 (20%)	0/10 (0%)	2/10 (20%)	2/10 (20%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	2/10.00	0/10.00	2/10.00	2/8.13	2/2.00
POLY-3 PERCENT (g)	0%	20%	0%	20%	24.6%	99.9%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	0/10 (0%)	2/10 (20%)	2/8 (25%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	93 (T)	93 (T)	4
STATISTICAL TESTS						
POLY 3	P=0.039*	P=0.227	(e)	P=0.227	P=0.179	P=0.040*
POLY 1.5	P=0.041*	P=0.227	(e)	P=0.227	P=0.186	P=0.042*
POLY 6	P=0.037*	P=0.227	(e)	P=0.227	P=0.176	P=0.040*
COCH-ARM / FISHERS	P=0.191	P=0.237	(e)	P=0.237	P=0.237	P=0.237
MAX-ISO-POLY-3	P=0.069	P=0.067	(e)	P=0.067	P=0.063	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	0/10 (0%)	4/10 (40%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	4/10.00	0/10.00	0/10.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	40%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.087N	P=0.033*	(e)	(e)	(e)	(e)
POLY 1.5	P=0.086N	P=0.033*	(e)	(e)	(e)	(e)
POLY 6	P=0.088N	P=0.033*	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.116N	P=0.043*	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.159N	P=0.007**	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	9/10 (90%)	7/10 (70%)	4/10 (40%)	3/10 (30%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	9/10.00	7/10.00	4/10.00	3/9.12	3/3.00
POLY-3 PERCENT (g)	0%	90%	70%	40%	32.9%	99.9%
TERMINAL (d)	0/10 (0%)	9/10 (90%)	7/10 (70%)	4/10 (40%)	2/8 (25%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P=0.451	P<0.001**	P<0.001**	P=0.033*	P=0.078	P=0.003**
POLY 1.5	P=0.483	P<0.001**	P<0.001**	P=0.033*	P=0.082	P=0.004**
POLY 6	P=0.436	P<0.001**	P<0.001**	P=0.033*	P=0.076	P=0.003**
COCH-ARM / FISHERS	P=0.180N	P<0.001**	P=0.002**	P=0.043*	P=0.105	P=0.105
MAX-ISO-POLY-3	P=0.071	P<0.001**	P<0.001**	P=0.007**	P=0.023*	P=0.006**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Metaplasia						
LESION RATES						
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%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	2/10 (20%)	6/10 (60%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	2/10.00	6/10.00	9/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	20%	60%	90%	100%	100%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	6/10 (60%)	9/10 (90%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.227	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.227	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.237	P=0.005**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.067	P<0.001**	P<0.001**	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	2/10.00	0/10.00	1/9.01	3/3.00
POLY-3 PERCENT (g)	0%	0%	20%	0%	11.1%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	46	4
STATISTICAL TESTS						
POLY 3	P=0.024*	(e)	P=0.227	(e)	P=0.479	P=0.003**
POLY 1.5	P=0.022*	(e)	P=0.227	(e)	P=0.481	P=0.004**
POLY 6	P=0.024*	(e)	P=0.227	(e)	P=0.479	P=0.003**
COCH-ARM / FISHERS	P=0.025*	(e)	P=0.237	(e)	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.013*	(e)	P=0.067	(e)	P=0.157	P=0.006**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Respiratory Epithelium Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	99.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	4
STATISTICAL TESTS						
POLY 3	P=0.359	(e)	(e)	P=0.500	(e)	P=0.243
POLY 1.5	P=0.358	(e)	(e)	P=0.500	(e)	P=0.248
POLY 6	P=0.352	(e)	(e)	P=0.500	(e)	P=0.243
COCH-ARM / FISHERS	P=0.229	(e)	(e)	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.192	(e)	(e)	P=0.158	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Nose: Turbinate Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	2/10 (20%)	4/10 (40%)	10/10 (100%)	10/10 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	2/10.00	4/10.00	10/10.00	10/10.00	0/0.00
POLY-3 PERCENT (g)	0%	20%	40%	100%	100%	0%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	4/10 (40%)	10/10 (100%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	---
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227	P=0.033*	P<0.001**	P<0.001**	(e)
POLY 1.5	P<0.001**	P=0.227	P=0.033*	P<0.001**	P<0.001**	(e)
POLY 6	P<0.001**	P=0.227	P=0.033*	P<0.001**	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.493N	P=0.237	P=0.043*	P<0.001**	P<0.001**	(e)
MAX-ISO-POLY-3	P<0.001**	P=0.067	P=0.007**	(e)	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin Hyperplasia						
LESION RATES						
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	0/8.13	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	9
STATISTICAL TESTS						
POLY 3	P=0.529	(e)	(e)	(e)	(e)	P=0.243
POLY 1.5	P=0.515	(e)	(e)	(e)	(e)	P=0.247
POLY 6	P=0.523	(e)	(e)	(e)	(e)	P=0.243
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.068	(e)	(e)	(e)	(e)	P=0.134

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin Inflammation						
LESION RATES						
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	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Adnexa Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	1/9.12	10/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	11%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	(e)	(e)	P=0.482	P<0.001**
POLY 1.5	P<0.001**	P=0.500	(e)	(e)	P=0.487	P<0.001**
POLY 6	P<0.001**	P=0.500	(e)	(e)	P=0.479	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	(e)	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	(e)	(e)	P=0.157	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Hair Follicle Atrophy						
LESION RATES						
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	1/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	12.3%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/8 (13%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.103	(e)	(e)	(e)	P=0.459	(e)
POLY 1.5	P=0.106	(e)	(e)	(e)	P=0.466	(e)
POLY 6	P=0.102	(e)	(e)	(e)	P=0.456	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.187	(e)	(e)	(e)	P=0.156	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Skin: Hair Follicle, Epithelium Parakeratosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	3/10 (30%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	3/10.00	3/9.12	6/6.00
POLY-3 PERCENT (g)	0%	10%	10%	30%	32.9%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)	2/8 (25%)	0/0 (0%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	16	5
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.500	P=0.095	P=0.078	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.500	P=0.095	P=0.082	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.500	P=0.095	P=0.076	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	P=0.105	P=0.105	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.158	P=0.024*	P=0.023*	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Spleen						
Atrophy Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	4/10 (40%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	4/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	40%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/8 (25%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P=0.033*	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P=0.033*	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P=0.033*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	P=0.043*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P=0.007**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Forestomach Cyst						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.541N	P=0.760N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.534N	P=0.757N
POLY 6	(e)	(e)	(e)	(e)	P=0.543N	P=0.760N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.207N	P=0.499N

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Forestomach Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
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)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Stomach, Glandular Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/9.00	0/9.00	0/10.00	0/8.13	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	99.9%
TERMINAL (d)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---	6
STATISTICAL TESTS						
POLY 3	P=0.124	(e)	(e)	(e)	(e)	P=0.040*
POLY 1.5	P=0.118	(e)	(e)	(e)	(e)	P=0.042*
POLY 6	P=0.120	(e)	(e)	(e)	(e)	P=0.040*
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.007**	(e)	(e)	(e)	(e)	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Thymus						
Atrophy Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/9 (67%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	6/9.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	66.7%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/8 (63%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	46	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Fibrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	2/10.00	6/9.01	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	66.6%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	5/8 (63%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	46	---
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 1.5	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
POLY 6	P<0.001**	(e)	(e)	P=0.227	P<0.001**	(e)
COCH-ARM / FISHERS	P=0.231	(e)	(e)	P=0.237	P=0.005**	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.067	P<0.001**	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	30%	50%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)	5/10 (50%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.095	P=0.008**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.105	P=0.016*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.024*	P=0.002**	(e)	(e)

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)	7/10 (70%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	3/10.00	10/10.00	7/9.01	7/7.00
POLY-3 PERCENT (g)	0%	0%	30%	100%	77.7%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)	6/8 (75%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	46	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.095	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.095	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.095	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.105	P<0.001**	P=0.002**	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.024*	(e)	P<0.001**	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	3/10 (30%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	3/10.00	3/8.13	8/8.00
POLY-3 PERCENT (g)	0%	0%	0%	30%	36.9%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	3/8 (38%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	93 (T)	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.095	P=0.059	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.095	P=0.064	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.095	P=0.058	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.105	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.024*	P=0.021*	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	10/10 (100%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	7/10.00	10/10.00	9/9.00
POLY-3 PERCENT (g)	0%	0%	10%	70%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	8/8 (100%)	0/0 (0%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	16	4
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.002**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P<0.001**	(e)	P<0.001**

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Trachea						
Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/9.12	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	11%	99.9%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	16	5
STATISTICAL TESTS						
POLY 3	P=0.029*	(e)	(e)	(e)	P=0.482	P=0.040*
POLY 1.5	P=0.027*	(e)	(e)	(e)	P=0.487	P=0.042*
POLY 6	P=0.029*	(e)	(e)	(e)	P=0.479	P=0.040*
COCH-ARM / FISHERS	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.027*	(e)	(e)	(e)	P=0.157	P=0.036*

Experiment Number: 20727 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ortho-Phthalaldehyde
 CAS Number: 643-79-8

Date Report Requested: 10/16/2015
 Time Report Requested: 12:31:33
 First Dose M/F: 01/19/09 / 01/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Uterus						
Decidual Reaction						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/1.00	0/8.13	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/8 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	(e)	(e)	P=0.091	(e)	(e)
POLY 6	(e)	(e)	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.508N	(e)	(e)	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P<0.001**	(e)	(e)

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 10/16/2015

Time Report Requested: 12:31:33

First Dose M/F: 01/19/09 / 01/20/09

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 ***