

Experiment Number: 08010 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
2,3-Pentanedione
CAS Number: 600-14-6

Date Report Requested: 04/29/2016
Time Report Requested: 09:07:39
First Dose M/F: 09/13/10 / 09/14/10
Lab: BNW

F1_Rev.1_RE

NTP Study Number: C08010
Lock Date: 07/12/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 2,3-PENTANEDIONE

MALE RATS

Organ

Adrenal Cortex
Eye: Ciliary Body
Eye: Cornea

Eye: Cornea, Epithelium

Kidney: Pelvis
Larynx
Larynx: Respiratory Epithelium

Larynx: Squamous Epithelium
Lung

Lung: Alveolar Epithelium

Lung: Alveolus
Lung: Bronchiole, Epithelium
Lung: Bronchus, Epithelium

Lung: Bronchus, Goblet Cell, Epithelium
Lung: Perivascular
Lymph Node, Mediastinal
Lymph Node, Mesenteric
Nose

Nose: Lamina Propria, Nasopharyngeal Duct

Morphology

Inflammation Lymphoid
Inflammation Acute
Inflammation Acute
Neovascularization
Hyperplasia
Vacuolation
Dilatation
Inflammation Chronic
Hyperplasia
Metaplasia
Necrosis
Regeneration
Ulcer
Hyperplasia
Fibrosis Focal
Infiltration Cellular Histiocyte
Inflammation Eosinophil
Hyperplasia
Hyperplasia Focal
Infiltration Cellular Polymorphonuclear
Hyperplasia
Hyperplasia
Metaplasia
Regeneration
Metaplasia
Infiltration Cellular Mononuclear Cell
Pigmentation
Hemorrhage
Foreign Body
Hyperplasia Lymphoid
Inflammation
Mineralization

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 2,3-PENTANEDIONE

Nose: Nasopharyngeal Duct

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Nose: Turbinate

Nose: Vomeronasal Organ

Skin

Trachea

Trachea: Epithelium

Foreign Body
Mineralization
Accumulation, Hyaline Droplet
Atrophy
Degeneration
Metaplasia Respiratory
Squamous Metaplasia
Degeneration
Hyperplasia
Metaplasia
Necrosis
Regeneration
Atrophy
Inflammation
Inflammation Acute
Inflammation Acute
Hyperplasia
Metaplasia
Necrosis
Regeneration

FEMALE RATS

Organ

Eye: Anterior Chamber

Eye: Ciliary Body

Eye: Cornea

Eye: Cornea, Epithelium

Larynx

Larynx: Respiratory Epithelium

Larynx: Squamous Epithelium

Morphology

Inflammation Acute

Inflammation Acute

Inflammation Acute

Necrosis

Neovascularization

Ulcer

Hyperplasia

Inflammation Chronic

Metaplasia

Necrosis

Regeneration

Hyperplasia

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Lung	Necrosis
	Ulcer
	Fibrosis Focal
	Infiltration Cellular Histiocyte
	Inflammation Eosinophil
	Mineralization Focal
Lung: Alveolus	Infiltration Cellular Polymorphonuclear
Lung: Bronchiole, Epithelium	Hyperplasia
Lung: Bronchus, Epithelium	Hyperplasia
	Regeneration
Lung: Bronchus, Goblet Cell, Epithelium	Metaplasia
Nose	Hyperplasia Lymphoid
	Inflammation
Nose: Olfactory Epithelium	Atrophy
	Degeneration
	Metaplasia Respiratory
Nose: Respiratory Epithelium	Hyperplasia
	Metaplasia
	Necrosis
	Regeneration
	Ulcer
Nose: Turbinate	Atrophy
Ovary	Cyst
Thyroid Gland	Ultimobranchial Cyst
Trachea	Inflammation
	Inflammation Acute
Trachea: Epithelium	Hyperplasia
	Metaplasia
	Necrosis
	Regeneration

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex						
Accessory Adrenal Cortical Nodule						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
POLY 1.5	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
POLY 6	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
COCH-ARM / FISHERS	P=0.648	(e)	(e)	(e)	P=0.909N	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.409N	P=1.000

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DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex						
Accessory Adrenal Cortical Nodule Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (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)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.300	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex Inflammation Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/1.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.091	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.091	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.091	(e)
COCH-ARM / FISHERS	P=0.700	(e)	(e)	(e)	P=0.091	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P<0.001**	(e)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Brain: Ventricle Dilatation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye						
Phthisis Bulbi						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.588	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.588	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.588	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.589	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.195	(e)	(e)	(e)	P=0.158	(e)

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Anterior Chamber Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.417	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	P=0.417	(e)	(e)	(e)	P=0.227	(e)
POLY 6	P=0.417	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.420	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.098	(e)	(e)	(e)	P=0.066	(e)

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Bilateral, Retina Dysplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Ciliary Body Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	3/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	3/10 (30%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.304	(e)	(e)	(e)	P=0.095	(e)
POLY 1.5	P=0.304	(e)	(e)	(e)	P=0.095	(e)
POLY 6	P=0.304	(e)	(e)	(e)	P=0.095	(e)
COCH-ARM / FISHERS	P=0.321	(e)	(e)	(e)	P=0.105	(e)
MAX-ISO-POLY-3	P=0.046*	(e)	(e)	(e)	P=0.025*	(e)

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Conjunctiva						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	2/9 (22%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	2/9.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	22.2%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	2/9 (22%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.521N	(e)	P=0.201	(e)	P=0.500	(e)
POLY 1.5	P=0.521N	(e)	P=0.201	(e)	P=0.500	(e)
POLY 6	P=0.521N	(e)	P=0.201	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.521N	(e)	P=0.211	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.211	(e)	P=0.059	(e)	P=0.158	(e)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	3/10 (30%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	3/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	3/10 (30%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P=0.095
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.105	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.025*	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Neovascularization						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.588	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.588	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.588	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.589	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.195	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea, Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.108	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea, Epithelium Vacuolation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Fat, Retrobulbar Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Iris						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.417	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	P=0.417	(e)	(e)	(e)	P=0.227	(e)
POLY 6	P=0.417	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.420	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.098	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Lens						
Cataract						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.481N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.481N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.481N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.481N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.195N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina						
Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/9.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.626N	P=0.500	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.626N	P=0.500	(e)	(e)	P=0.500	(e)
POLY 6	P=0.626N	P=0.500	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.628N	P=0.500	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.272N	P=0.158	(e)	(e)	P=0.158	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina Dysplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/10 (20%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	2/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/10 (20%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	93 (T)	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.319	(e)	(e)	P=0.227	(e)	P=0.500
POLY 1.5	P=0.319	(e)	(e)	P=0.227	(e)	P=0.500
POLY 6	P=0.319	(e)	(e)	P=0.227	(e)	P=0.500
COCH-ARM / FISHERS	P=0.321	(e)	(e)	P=0.237	(e)	P=0.500
MAX-ISO-POLY-3	P=0.151	(e)	(e)	P=0.066	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina Pigmentation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Sclera						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Concretion						
LESION RATES						
OVERALL (a)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	50%	0%	0%	0%	0%	40%
TERMINAL (d)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.411N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.332N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Hyperplasia						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	10%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292N
COCH-ARM / FISHERS	P=0.201N	(e)	(e)	(e)	(e)	P=0.291N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.136N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	10%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292N
COCH-ARM / FISHERS	P=0.201N	(e)	(e)	(e)	(e)	P=0.291N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.136N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	40%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.148
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.148
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.148
COCH-ARM / FISHERS	P=0.098	(e)	(e)	(e)	(e)	P=0.152
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.058

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Intestine Large, Colon: Epithelium Degeneration						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney						
Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
POLY 1.5	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
POLY 6	(e)	(e)	(e)	(e)	P=0.913N	P=0.760
COCH-ARM / FISHERS	P=0.648	(e)	(e)	(e)	P=0.909N	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.409N	P=1.000

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/1.00	2/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	20%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.689N	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.689N	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	P=0.689N	P=0.500N
COCH-ARM / FISHERS	P=0.396N	(e)	(e)	(e)	P=0.727N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.328N	P=0.310N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Cortex Cyst						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
COCH-ARM / FISHERS	P=0.300N	(e)	(e)	(e)	P=0.909N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.409N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis Dilatation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/1.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.091	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	P=0.091	P=0.227
POLY 6	(e)	(e)	(e)	(e)	P=0.091	P=0.227
COCH-ARM / FISHERS	P=0.169	(e)	(e)	(e)	P=0.091	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P<0.001**	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.300	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis, Transitional Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.300	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Casts Protein						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
COCH-ARM / FISHERS	P=0.300N	(e)	(e)	(e)	P=0.909N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.409N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Hyperplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	P=0.913N	P=0.500N
COCH-ARM / FISHERS	P=0.300N	(e)	(e)	(e)	P=0.909N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.409N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx Inflammation						
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	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.411	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	P=0.411	(e)	(e)	(e)	P=0.227	(e)
POLY 6	P=0.411	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.414	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.096	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	40%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.148
COCH-ARM / FISHERS	P=0.002**	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.152
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.058

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	1/10.00	7/10.00	3/10.00
POLY-3 PERCENT (g)	0%	10%	0%	10%	70%	30%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	3/10 (30%)
FIRST INCIDENCE	---	93 (T)	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	(e)	P=0.500	P<0.001**	P=0.095
POLY 1.5	P<0.001**	P=0.500	(e)	P=0.500	P<0.001**	P=0.095
POLY 6	P<0.001**	P=0.500	(e)	P=0.500	P<0.001**	P=0.095
COCH-ARM / FISHERS	P=0.006**	P=0.500	(e)	P=0.500	P=0.002**	P=0.105
MAX-ISO-POLY-3	P<0.001**	P=0.158	(e)	P=0.158	P<0.001**	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	1/10.00	1/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	10%	10%	10%	50%	100%	100%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.760	P=0.760	P=0.061	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.760	P=0.760	P=0.061	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.760	P=0.760	P=0.061	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.763N	P=0.763N	P=0.070	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=1.000	P=0.020*	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Necrosis						
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	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Regeneration						
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	1/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.227
POLY 1.5	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.227
POLY 6	P=0.013*	(e)	(e)	(e)	P=0.500	P=0.227
COCH-ARM / FISHERS	P=0.014*	(e)	(e)	(e)	P=0.500	P=0.237
MAX-ISO-POLY-3	P=0.012*	(e)	(e)	(e)	P=0.158	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Ulcer						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium Hyperplasia						
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	0/10.00	7/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	70%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium Necrosis						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium 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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.132N	(e)	(e)	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Liver						
Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Fibrosis Focal						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	5/10 (50%)	3/10 (30%)	0/10 (0%)	2/10 (20%)	3/10 (30%)	9/10 (90%)
POLY-3 RATE (b)	5/10.00	3/10.00	0/10.00	2/10.00	3/10.00	9/10.00
POLY-3 PERCENT (g)	50%	30%	0%	20%	30%	90%
TERMINAL (d)	5/10 (50%)	3/10 (30%)	0/10 (0%)	2/10 (20%)	3/10 (30%)	9/10 (90%)
FIRST INCIDENCE	93 (T)	93 (T)	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.329N	P=0.008N**	P=0.174N	P=0.329N	P=0.061
POLY 1.5	P<0.001**	P=0.329N	P=0.008N**	P=0.174N	P=0.329N	P=0.061
POLY 6	P<0.001**	P=0.329N	P=0.008N**	P=0.174N	P=0.329N	P=0.061
COCH-ARM / FISHERS	P<0.001**	P=0.325N	P=0.016N*	P=0.175N	P=0.325N	P=0.070
MAX-ISO-POLY-3	P<0.001**	P=0.188N	P<0.001N**	P=0.079N	P=0.188N	P=0.020*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung Inflammation Chronic						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung Inflammation Eosinophil						
LESION RATES						
OVERALL (a)	3/10 (30%)	3/10 (30%)	1/10 (10%)	5/10 (50%)	3/10 (30%)	10/10 (100%)
POLY-3 RATE (b)	3/10.00	3/10.00	1/10.00	5/10.00	3/10.00	10/10.00
POLY-3 PERCENT (g)	30%	30%	10%	50%	30%	100%
TERMINAL (d)	3/10 (30%)	3/10 (30%)	1/10 (10%)	5/10 (50%)	3/10 (30%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.678	P=0.292N	P=0.329	P=0.678	P<0.001**
POLY 1.5	P<0.001**	P=0.678	P=0.292N	P=0.329	P=0.678	P<0.001**
POLY 6	P<0.001**	P=0.678	P=0.292N	P=0.329	P=0.678	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.686N	P=0.291N	P=0.325	P=0.686N	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=0.136N	P=0.188	P=1.000	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Metaplasia Osseous						
LESION RATES						
OVERALL (a)	1/10 (10%)	2/10 (20%)	1/10 (10%)	3/10 (30%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	2/10.00	1/10.00	3/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	20%	10%	30%	0%	0%
TERMINAL (d)	1/10 (10%)	2/10 (20%)	1/10 (10%)	3/10 (30%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.116N	P=0.500	P=0.760	P=0.292	P=0.500N	P=0.500N
POLY 1.5	P=0.116N	P=0.500	P=0.760	P=0.292	P=0.500N	P=0.500N
POLY 6	P=0.116N	P=0.500	P=0.760	P=0.292	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.117N	P=0.500	P=0.763N	P=0.291	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.109N	P=0.274	P=1.000	P=0.136	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Mineralization Focal						
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	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.585	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.585	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.585	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.193	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia Focal						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolus Infiltration Cellular Polymorphonuclear						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchiole, Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.025*	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	5/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	50%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Goblet Cell, Epithelium Metaplasia						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Perivascular Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	10%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.124N	P=0.500N	P=0.227N	P=0.227N	P=0.227N	P=0.227N
POLY 1.5	P=0.124N	P=0.500N	P=0.227N	P=0.227N	P=0.227N	P=0.227N
POLY 6	P=0.124N	P=0.500N	P=0.227N	P=0.227N	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.127N	P=0.500N	P=0.237N	P=0.237N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.019N*	P=0.274N	P=0.066N	P=0.066N	P=0.066N	P=0.066N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.285	(e)	(e)	(e)	(e)	P=0.474
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.150

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Pigmentation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.479
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.285	(e)	(e)	(e)	(e)	P=0.474
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.150

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mandibular Hyperplasia						
LESION RATES						
OVERALL (a)	0/6 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
POLY-3 RATE (b)	0/6.00	0/0.00	0/0.00	0/0.00	0/0.00	2/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	22.2%
TERMINAL (d)	0/6 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.324
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.324
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.324
COCH-ARM / FISHERS	P=0.197	(e)	(e)	(e)	(e)	P=0.343
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.132

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Hyperplasia						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Pigmentation						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	40%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.044*
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.044*
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.044*
COCH-ARM / FISHERS	P=0.032*	(e)	(e)	(e)	(e)	P=0.054
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.012*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Hemorrhage						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (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=0.416N	(e)	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	P<0.001**	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Hyperplasia						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/1.00	0/0.00	0/0.00	6/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	60%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.689N	(e)	(e)	P=0.186
POLY 1.5	(e)	(e)	P=0.689N	(e)	(e)	P=0.186
POLY 6	(e)	(e)	P=0.689N	(e)	(e)	P=0.186
COCH-ARM / FISHERS	P=0.104	(e)	P=0.727N	(e)	(e)	P=0.185
MAX-ISO-POLY-3	(e)	(e)	P=0.328N	(e)	(e)	P=0.089

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Pigmentation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Mammary Gland Hyperplasia						
LESION RATES						
OVERALL (a)	0/2 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/3 (33%)
POLY-3 RATE (b)	0/2.00	0/0.00	0/0.00	0/0.00	0/0.00	1/3.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	33.3%
TERMINAL (d)	0/2 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.577
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.577
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.577
COCH-ARM / FISHERS	P=0.366	(e)	(e)	(e)	(e)	P=0.600
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.239

Experiment Number: 08010 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
2,3-Pentanedione
CAS Number: 600-14-6

Date Report Requested: 04/29/2016
Time Report Requested: 09:07:39
First Dose M/F: 09/13/10 / 09/14/10
Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Mesentery: Fat Necrosis						
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose						
Hyperplasia Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	7/10 (70%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	1/10.00	7/10.00	5/10.00
POLY-3 PERCENT (g)	0%	10%	10%	10%	70%	50%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	1/10 (10%)	7/10 (70%)	5/10 (50%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.500	P=0.500	P<0.001**	P=0.008**
POLY 1.5	P<0.001**	P=0.500	P=0.500	P=0.500	P<0.001**	P=0.008**
POLY 6	P<0.001**	P=0.500	P=0.500	P=0.500	P<0.001**	P=0.008**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	P=0.500	P=0.002**	P=0.016*
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.158	P=0.158	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose Inflammation						
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%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	93 (T)	93 (T)	93 (T)
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=0.066	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Lamina Propria, Nasopharyngeal Duct Mineralization						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasolacrimal Duct Inflammation Chronic						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	93 (T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.484N	P=0.500	(e)	(e)	(e)	(e)
POLY 1.5	P=0.484N	P=0.500	(e)	(e)	(e)	(e)
POLY 6	P=0.484N	P=0.500	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.484N	P=0.500	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.193N	P=0.158	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasopharyngeal Duct						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasopharyngeal Duct Mineralization						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	10%	0%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.205N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
POLY 1.5	P=0.205N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
POLY 6	P=0.205N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
COCH-ARM / FISHERS	P=0.208N	P=0.237N	P=0.237N	P=0.500N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	P=0.019N*	P=0.066N	P=0.066N	P=0.274N	P=0.066N	P=0.066N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Atrophy						
LESION RATES						
OVERALL (a)	1/10 (10%)	1/10 (10%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	1/10.00	0/10.00	4/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	10%	10%	0%	40%	100%	100%
TERMINAL (d)	1/10 (10%)	1/10 (10%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	93 (T)	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.760	P=0.500N	P=0.148	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.760	P=0.500N	P=0.148	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.760	P=0.500N	P=0.148	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.763N	P=0.500N	P=0.152	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=0.158N	P=0.058	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00	2/10.00	10/10.00	3/10.00
POLY-3 PERCENT (g)	20%	0%	0%	20%	100%	30%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	3/10 (30%)
FIRST INCIDENCE	93 (T)	---	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227N	P=0.227N	P=0.702	P<0.001**	P=0.500
POLY 1.5	P<0.001**	P=0.227N	P=0.227N	P=0.702	P<0.001**	P=0.500
POLY 6	P<0.001**	P=0.227N	P=0.227N	P=0.702	P<0.001**	P=0.500
COCH-ARM / FISHERS	P=0.011*	P=0.237N	P=0.237N	P=0.709N	P<0.001**	P=0.500
MAX-ISO-POLY-3	P<0.001**	P=0.066N	P=0.066N	P=1.000	P<0.001**	P=0.310

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	2/10 (20%)	1/10 (10%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	2/10.00	0/10.00	2/10.00	1/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	20%	0%	20%	10%	80%	100%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	2/10 (20%)	1/10 (10%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	---	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.227N	P=0.702	P=0.500N	P=0.004**	P<0.001**
POLY 1.5	P<0.001**	P=0.227N	P=0.702	P=0.500N	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.227N	P=0.702	P=0.500N	P=0.004**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.237N	P=0.709N	P=0.500N	P=0.012*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.066N	P=1.000	P=0.274N	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Squamous Metaplasia						
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	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	2/10 (20%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	2/10.00	9/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	20%	90%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	2/10 (20%)	9/10 (90%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.227	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.227	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.227	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.237	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.066	P<0.001**	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium 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	2/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium 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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Turbinate Atrophy						
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	2/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Vomeronasal Organ Inflammation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.415N	P=0.500N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.041N*	P=0.158N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas Atrophy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	20%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.377	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Apoptosis						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	(e)	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Eosinophilic Focus						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland Cyst						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Cyst						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Preputial Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	7/10 (70%)
POLY-3 RATE (b)	7/10.00	0/0.00	0/0.00	0/0.00	0/0.00	7/10.00
POLY-3 PERCENT (g)	70%	0%	0%	0%	0%	70%
TERMINAL (d)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	7/10 (70%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.678
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.678
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.678
COCH-ARM / FISHERS	P=0.596	(e)	(e)	(e)	(e)	P=0.686N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Prostate Inflammation Chronic						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	20%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.398N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.310N

Experiment Number: 08010 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
2,3-Pentanedione
CAS Number: 600-14-6

Date Report Requested: 04/29/2016
Time Report Requested: 09:07:39
First Dose M/F: 09/13/10 / 09/14/10
Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Salivary Glands: Parotid Gland Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Skin						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	93 (T)	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	P=0.091	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	P=0.091	(e)	(e)	(e)	P=0.500
POLY 6	(e)	P=0.091	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.588	P=0.091	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Spleen Pigmentation						
LESION RATES						
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	0/0.00	0/0.00	6/10.00
POLY-3 PERCENT (g)	60%	0%	0%	0%	0%	60%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.667
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.667
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.667
COCH-ARM / FISHERS	P=0.590	(e)	(e)	(e)	(e)	P=0.675N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Stomach, Forestomach: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Testes						
Edema						
LESION RATES						
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	7/10 (70%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	0/0.00	0/0.00	7/10.00
POLY-3 PERCENT (g)	60%	0%	0%	0%	0%	70%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	7/10 (70%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.407	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.325

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus						
Ectopic Parathyroid Gland						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
2,3-Pentanedione
CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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First Dose M/F: 09/13/10 / 09/14/10
Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus: Epithelial Cell Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Ultimobranchial Cyst						
LESION RATES						
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	10%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292N
COCH-ARM / FISHERS	P=0.201N	(e)	(e)	(e)	(e)	P=0.291N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.136N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Tooth Dysplasia						
LESION RATES						
OVERALL (a)	2/2 (100%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	2/2.00	0/0.00	0/1.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	100%	0%	0%	0%	0%	0%
TERMINAL (d)	2/2 (100%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.333N	(e)	(e)	(e)
POLY 1.5	(e)	(e)	P=0.333N	(e)	(e)	(e)
POLY 6	(e)	(e)	P=0.333N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.999N	(e)	P=0.333N	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Tooth: Periodontal Tissue Abscess						
LESION RATES						
OVERALL (a)	0/2 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/2.00	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)	0/2 (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)	P=0.333	(e)	(e)	(e)
POLY 1.5	(e)	(e)	P=0.333	(e)	(e)	(e)
POLY 6	(e)	(e)	P=0.333	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.999	(e)	P=0.333	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea 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	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.585	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.585	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.585	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.585	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.193	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	93 (T)	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
POLY 1.5	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
POLY 6	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	(e)	P=0.105
MAX-ISO-POLY-3	P=0.002**	(e)	(e)	P=0.158	(e)	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Necrosis						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Males					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	0/10.00	8/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	10%	0%	80%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	8/10 (80%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)	93 (T)	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	P=0.500	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.500	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.500	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.500	(e)	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P=0.158	(e)	P<0.001**	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex						
Accessory Adrenal Cortical Nodule						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex						
Accessory Adrenal Cortical Nodule Focal						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hypertrophy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Adrenal Cortex Inflammation Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Brain: Ventricle Dilatation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Clitoral Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
POLY-3 RATE (b)	4/10.00	0/0.00	0/0.00	0/0.00	0/0.00	5/10.00
POLY-3 PERCENT (g)	40%	0%	0%	0%	0%	50%
TERMINAL (d)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.411	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.332

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Clitoral Gland: Duct Ectasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye Phthisis Bulbi						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Anterior Chamber Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	3/9 (33%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	3/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	33.3%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	3/9 (33%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.291	(e)	(e)	(e)	P=0.074	(e)
POLY 1.5	P=0.291	(e)	(e)	(e)	P=0.074	(e)
POLY 6	P=0.291	(e)	(e)	(e)	P=0.074	(e)
COCH-ARM / FISHERS	P=0.313	(e)	(e)	(e)	P=0.087	(e)
MAX-ISO-POLY-3	P=0.036*	(e)	(e)	(e)	P=0.019*	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Bilateral, Retina Dysplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/9.00	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.567N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.567N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.567N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.285N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Ciliary Body Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	5/9 (56%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	5/9.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	55.6%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	5/9 (56%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.003**	(e)	(e)	(e)	P=0.003**	P=0.227
POLY 1.5	P=0.003**	(e)	(e)	(e)	P=0.003**	P=0.227
POLY 6	P=0.003**	(e)	(e)	(e)	P=0.003**	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	P=0.011*	P=0.237
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Conjunctiva						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/9.00	1/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	11.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
POLY 1.5	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
POLY 6	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.688N	(e)	P=0.500	(e)	P=0.474	(e)
MAX-ISO-POLY-3	P=0.263	(e)	P=0.158	(e)	P=0.150	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	5/9 (56%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/9.00	5/9.00	6/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	55.6%	60%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	5/9 (56%)	6/10 (60%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	(e)	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	(e)	P=0.003**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	(e)	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	(e)	P=0.011*	P=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	(e)	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Neovascularization						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea						
Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea, Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Cornea, Epithelium Vacuolation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	1/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	11.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.582	(e)	(e)	(e)	P=0.479	(e)
POLY 1.5	P=0.582	(e)	(e)	(e)	P=0.479	(e)
POLY 6	P=0.582	(e)	(e)	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.582	(e)	(e)	(e)	P=0.474	(e)
MAX-ISO-POLY-3	P=0.184	(e)	(e)	(e)	P=0.150	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Fat, Retrobulbar Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	1/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	11.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.582	(e)	(e)	(e)	P=0.479	(e)
POLY 1.5	P=0.582	(e)	(e)	(e)	P=0.479	(e)
POLY 6	P=0.582	(e)	(e)	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.582	(e)	(e)	(e)	P=0.474	(e)
MAX-ISO-POLY-3	P=0.184	(e)	(e)	(e)	P=0.150	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Iris						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Lens						
Cataract						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina						
Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/9 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina Dysplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/9.00	1/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	11.1%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
POLY 1.5	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
POLY 6	P=0.685N	(e)	P=0.500	(e)	P=0.479	(e)
COCH-ARM / FISHERS	P=0.688N	(e)	P=0.500	(e)	P=0.474	(e)
MAX-ISO-POLY-3	P=0.263	(e)	P=0.158	(e)	P=0.150	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Retina Pigmentation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/9.00	1/9.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	11.1%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/9 (11%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.586N	P=0.500N	P=0.500N	P=0.521N	P=0.737	P=0.500N
POLY 1.5	P=0.586N	P=0.500N	P=0.500N	P=0.521N	P=0.737	P=0.500N
POLY 6	P=0.586N	P=0.500N	P=0.500N	P=0.521N	P=0.737	P=0.500N
COCH-ARM / FISHERS	P=0.587N	P=0.500N	P=0.500N	P=0.526N	P=0.737	P=0.500N
MAX-ISO-POLY-3	P=0.113N	P=0.158N	P=0.158N	P=0.178N	P=0.469	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Eye: Sclera						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/9 (22%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	2/9.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	22.2%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	2/9 (22%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.408	(e)	(e)	(e)	P=0.201	(e)
POLY 1.5	P=0.408	(e)	(e)	(e)	P=0.201	(e)
POLY 6	P=0.408	(e)	(e)	(e)	P=0.201	(e)
COCH-ARM / FISHERS	P=0.413	(e)	(e)	(e)	P=0.211	(e)
MAX-ISO-POLY-3	P=0.086	(e)	(e)	(e)	P=0.059	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Concretion						
LESION RATES						
OVERALL (a)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	4/10.00	0/0.00	0/0.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	40%	0%	0%	0%	0%	30%
TERMINAL (d)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.407N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.325N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Hyperplasia						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Harderian Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	20%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.377	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Intestine Large, Colon: Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney						
Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Cortex Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis Dilatation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Pelvis, Transitional Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Casts Protein						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Hyperplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.913N	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.913N	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.913N	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.315N	(e)	P=0.909N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.409N	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx 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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	0/10.00	5/10.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	0%	50%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	5/10 (50%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	P=0.500	P=0.500	(e)	P=0.008**
POLY 1.5	P<0.001**	(e)	P=0.500	P=0.500	(e)	P=0.008**
POLY 6	P<0.001**	(e)	P=0.500	P=0.500	(e)	P=0.008**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P=0.500	(e)	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.158	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.086	(e)	(e)	(e)	P=0.227	P=0.500
POLY 1.5	P=0.086	(e)	(e)	(e)	P=0.227	P=0.500
POLY 6	P=0.086	(e)	(e)	(e)	P=0.227	P=0.500
COCH-ARM / FISHERS	P=0.089	(e)	(e)	(e)	P=0.237	P=0.500
MAX-ISO-POLY-3	P=0.059	(e)	(e)	(e)	P=0.066	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	4/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	40%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.033*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.033*	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.033*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.043*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.007**	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Necrosis						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Regeneration						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Respiratory Epithelium Ulcer						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	93 (T)	---	---
STATISTICAL TESTS						
POLY 3	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
POLY 6	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.698N	(e)	(e)	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.282	(e)	(e)	P=0.158	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	5/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	50%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.008**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Larynx: Squamous Epithelium Ulcer						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.007**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Liver						
Infiltration Cellular Mixed Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Liver						
Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.132N	(e)	(e)	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Fibrosis Focal						
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	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	8/10 (80%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	6/10 (60%)	9/10 (90%)
POLY-3 RATE (b)	8/10.00	1/10.00	3/10.00	4/10.00	6/10.00	9/10.00
POLY-3 PERCENT (g)	80%	10%	30%	40%	60%	90%
TERMINAL (d)	8/10 (80%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	6/10 (60%)	9/10 (90%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.003**	P<0.001N**	P=0.024N*	P=0.077N	P=0.318N	P=0.500
POLY 1.5	P=0.003**	P<0.001N**	P=0.024N*	P=0.077N	P=0.318N	P=0.500
POLY 6	P=0.003**	P<0.001N**	P=0.024N*	P=0.077N	P=0.318N	P=0.500
COCH-ARM / FISHERS	P=0.008**	P=0.003N**	P=0.035N*	P=0.085N	P=0.314N	P=0.500
MAX-ISO-POLY-3	P=0.003**	P<0.001N**	P=0.007N**	P=0.029N*	P=0.172N	P=0.274

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Inflammation Chronic						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung Inflammation Eosinophil						
LESION RATES						
OVERALL (a)	4/10 (40%)	3/10 (30%)	4/10 (40%)	3/10 (30%)	5/10 (50%)	10/10 (100%)
POLY-3 RATE (b)	4/10.00	3/10.00	4/10.00	3/10.00	5/10.00	10/10.00
POLY-3 PERCENT (g)	40%	30%	40%	30%	50%	100%
TERMINAL (d)	4/10 (40%)	3/10 (30%)	4/10 (40%)	3/10 (30%)	5/10 (50%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.667	P=0.500N	P=0.500	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.667	P=0.500N	P=0.500	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.667	P=0.500N	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.675N	P=0.500N	P=0.500	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P=0.325N	P=1.000	P=0.325N	P=0.332	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Metaplasia Osseous						
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	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	93 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.411	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	P=0.411	(e)	(e)	(e)	P=0.227	(e)
POLY 6	P=0.411	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.414	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.096	(e)	(e)	(e)	P=0.066	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung						
Mineralization Focal						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia Focal						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Alveolus						
Infiltration Cellular Polymorphonuclear						
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	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.008**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.010**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchiole, Epithelium Hyperplasia						
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	0/10.00	7/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	70%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.007**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Metaplasia						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Bronchus, Goblet Cell, Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	(e)	P=0.095
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lung: Perivascular Infiltration Cellular Mononuclear Cell						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Hyperplasia						
LESION RATES						
OVERALL (a)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/8.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.544
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.544
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.544
COCH-ARM / FISHERS	P=0.344	(e)	(e)	(e)	(e)	P=0.556
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.199

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Pigmentation						
LESION RATES						
OVERALL (a)	2/8 (25%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	2/8.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	25%	0%	0%	0%	0%	20%
TERMINAL (d)	2/8 (25%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.618N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.618N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.618N
COCH-ARM / FISHERS	P=0.513N	(e)	(e)	(e)	(e)	P=0.618N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.407N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mandibular Hyperplasia						
LESION RATES						
OVERALL (a)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	4/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	40%	0%	0%	0%	0%	20%
TERMINAL (d)	4/10 (40%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.318N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.318N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.318N
COCH-ARM / FISHERS	P=0.232N	(e)	(e)	(e)	(e)	P=0.314N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.172N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Hyperplasia						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	2/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	22.2%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/9 (22%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.225
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.225
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.225
COCH-ARM / FISHERS	P=0.130	(e)	(e)	(e)	(e)	P=0.235
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.064

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Pigmentation						
LESION RATES						
OVERALL (a)	6/9 (67%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/9 (44%)
POLY-3 RATE (b)	6/9.00	0/0.00	0/0.00	0/0.00	0/0.00	4/9.00
POLY-3 PERCENT (g)	66.7%	0%	0%	0%	0%	44.4%
TERMINAL (d)	6/9 (67%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/9 (44%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.323N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.323N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.323N
COCH-ARM / FISHERS	P=0.238N	(e)	(e)	(e)	(e)	P=0.319N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.179N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Hemorrhage						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Hyperplasia						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	30%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.398	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.310

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mesenteric Pigmentation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Mammary Gland Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Mesentery: Fat Necrosis						
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%)	1/1 (100%)	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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose						
Hyperplasia Lymphoid						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	93 (T)	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
POLY 1.5	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
POLY 6	P=0.003**	(e)	(e)	P=0.500	(e)	P=0.095
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	(e)	P=0.105
MAX-ISO-POLY-3	P=0.002**	(e)	(e)	P=0.158	(e)	P=0.025*

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Lamina Propria, Nasopharyngeal Duct Mineralization						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasolacrimal Duct Inflammation Chronic						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasopharyngeal Duct						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Nasopharyngeal Duct Mineralization						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
POLY 6	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	(e)	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282N	(e)	P=0.158	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Atrophy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	10/10 (100%)	9/10 (90%)
POLY-3 RATE (b)	1/10.00	0/10.00	1/10.00	1/10.00	10/10.00	9/10.00
POLY-3 PERCENT (g)	10%	0%	10%	10%	100%	90%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	10/10 (100%)	9/10 (90%)
FIRST INCIDENCE	93 (T)	---	93 (T)	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.760	P=0.760	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.760	P=0.760	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.760	P=0.760	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.763N	P=0.763N	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=1.000	P=1.000	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Degeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	4/10.00	5/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	40%	50%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)
FIRST INCIDENCE	---	93 (T)	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500	(e)	(e)	P=0.033*	P=0.008**
POLY 1.5	P<0.001**	P=0.500	(e)	(e)	P=0.033*	P=0.008**
POLY 6	P<0.001**	P=0.500	(e)	(e)	P=0.033*	P=0.008**
COCH-ARM / FISHERS	P<0.001**	P=0.500	(e)	(e)	P=0.043*	P=0.016*
MAX-ISO-POLY-3	P<0.001**	P=0.158	(e)	(e)	P=0.007**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	8/10 (80%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	8/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	80%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	8/10 (80%)	9/10 (90%)
FIRST INCIDENCE	---	---	93 (T)	93 (T)	93 (T)	93 (T)
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<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.158	P=0.158	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium						
Squamous Metaplasia						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Degeneration						
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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	3/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	10%	0%	0%	30%	100%	100%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	93 (T)	---	---	93 (T)	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.292	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.292	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.292	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.291	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=0.136	P<0.001**	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.025*	(e)

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Ulcer						
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	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Turbinate Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	93 (T)	93 (T)
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<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	P<0.001**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nose: Vomeronasal Organ 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	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Ovary Cyst						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	100%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	93 (T)	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.146	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.146	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.146	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.190N	(e)	P=0.182	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.022*	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Apoptosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Eosinophilic Focus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Salivary Glands: Parotid Gland Atrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Skin						
Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Spleen Pigmentation						
LESION RATES						
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	0/0.00	0/0.00	6/10.00
POLY-3 PERCENT (g)	60%	0%	0%	0%	0%	60%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.667
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.667
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.667
COCH-ARM / FISHERS	P=0.590	(e)	(e)	(e)	(e)	P=0.675N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Stomach, Forestomach: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus Cyst						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93 (T)	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus						
Ectopic Parathyroid Gland						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thymus: Epithelial Cell Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Infiltration Cellular Mononuclear Cell						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Thyroid Gland Ultimobranchial Cyst						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	40%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.033*
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.033*
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.033*
COCH-ARM / FISHERS	P=0.025*	(e)	(e)	(e)	(e)	P=0.043*
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.007**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Tooth Dysplasia						
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Tooth: Periodontal Tissue Abscess						
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: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea Inflammation						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.110	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.110	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.108	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.043*	(e)	(e)	(e)	(e)	P=0.158

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea Inflammation Acute						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	1/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	40%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	---	93 (T)	---	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	(e)	P=0.033*
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	(e)	P=0.033*
POLY 6	P<0.001**	(e)	(e)	P=0.500	(e)	P=0.033*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	(e)	P=0.043*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	(e)	P=0.007**

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
 Time Report Requested: 09:07:39
 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016
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 First Dose M/F: 09/13/10 / 09/14/10
 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Necrosis						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	93 (T)
STATISTICAL TESTS						
POLY 3	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.009**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

Experiment Number: 08010 - 01
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 2,3-Pentanedione
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 Lab: BNW

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

DOSE	Females					
	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Trachea: Epithelium Regeneration						
LESION RATES						
OVERALL (a)	0/10 (0%)	3/10 (30%)	0/9 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	3/10.00	0/9.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	0%	30%	0%	0%	70%	100%
TERMINAL (d)	0/10 (0%)	3/10 (30%)	0/9 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
FIRST INCIDENCE	---	93 (T)	---	---	93 (T)	93 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.095	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.095	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.095	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.105	(e)	(e)	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.025*	(e)	(e)	P<0.001**	(e)

Experiment Number: 08010 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
2,3-Pentanedione
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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 ***