

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:38

First Dose M/F: NA / NA

Lab: BAT

C Number:	C56348A
Lock Date:	01/02/1996
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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

MALE RAT

Organ

Bone Marrow

Heart

Kidney

Kidney: Renal Tubule

Liver

Lung: Alveolus

Nose

Preputial Gland

Stomach, Forestomach

Stomach, Forestomach: Epithelium

Testes

Thymus

FEMALE RAT

Organ

Bone Marrow

Clitoral Gland

Intestine Large, Rectum

Liver

Lung

Stomach, Forestomach

Stomach, Forestomach: Epithelium

Thymus

Trachea

Morphology

Atrophy

Hemorrhage

Cardiomyopathy

Mineralization

Nephropathy

Casts Granular

Regeneration

Hepatodiaphragmatic Nodule

Inflammation Chronic

Infiltration Cellular Histiocyte

Inflammation

Inflammation

Hyperkeratosis

Hyperplasia

Aspermia

Atrophy

Morphology

Hemorrhage

Atrophy

Inflammation

Parasite Metazoan

Inflammation Chronic

Inflammation Chronic

Hyperkeratosis

Hyperplasia

Atrophy

Inflammation

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Bone Marrow					
Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	70%	100%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/10 (0%)	7/10 (70%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.000**	P=NA
POLY 1.5	(e)	(e)	(e)	P=0.000**	P=NA
POLY 6	(e)	(e)	(e)	P=0.000**	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Bone Marrow Hemorrhage					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/10.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Epididymis					
Inflammation					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.637N	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.637N	P=0.800N
POLY 6	(e)	(e)	(e)	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.381N	(e)	(e)	P=0.667N	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Heart					
Cardiomyopathy					
LESION RATES					
OVERALL(a)	16/20 (80%)	0/0 (0%)	0/0 (0%)	8/10 (80%)	1/10 (10%)
POLY-3 RATE (b)	16/20.00	0/0.00	0/0.00	8/10.00	1/1.01
POLY-3 PERCENT (g)	80%	0%	0%	80%	99%
TERMINAL (d)	16/20 (80%)	0/0 (0%)	0/0 (0%)	8/10 (80%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.680	P=0.622
POLY 1.5	(e)	(e)	(e)	P=0.680	P=0.671N
POLY 6	(e)	(e)	(e)	P=0.680	P=0.619
COCH-ARM / FISHERS	P=0.001N**	(e)	(e)	P=0.674N	P=0.000N**
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000	P=0.450
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Intestine Large, Colon					
Parasite Metazoan					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.359	(e)
POLY 1.5	(e)	(e)	(e)	P=0.359	(e)
POLY 6	(e)	(e)	(e)	P=0.359	(e)
COCH-ARM / FISHERS	P=0.622	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.107	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Intestine Large, Rectum					
Parasite Metazoan					
LESION RATES					
OVERALL(a)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.400N	P=0.733N
POLY 1.5	(e)	(e)	(e)	P=0.400N	P=0.723N
POLY 6	(e)	(e)	(e)	P=0.400N	P=0.734N
COCH-ARM / FISHERS	P=0.191N	(e)	(e)	P=0.437N	P=0.437N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.189N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Kidney					
Developmental Malformation					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/10.00	0/10.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	P=0.387N	P=0.637N	P=0.637N	P=0.637N	P=0.805N
POLY 1.5	P=0.387N	P=0.637N	P=0.637N	P=0.637N	P=0.800N
POLY 6	P=0.387N	P=0.637N	P=0.637N	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.430N	P=0.667N	P=0.667N	P=0.667N	P=0.667N
MAX-ISO-POLY-3	P=0.652N	P=0.272N	P=0.272N	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Kidney Mineralization					
LESION RATES					
OVERALL(a)	11/20 (55%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	0/10 (0%)
POLY-3 RATE (b)	11/20.00	0/10.00	0/10.00	6/10.00	0/0.01
POLY-3 PERCENT (g)	55%	0%	0%	60%	0%
TERMINAL (d)	11/20 (55%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	P=0.582	P=0.002N**	P=0.002N**	P=0.550	P=0.645N
POLY 1.5	P=0.585	P=0.002N**	P=0.002N**	P=0.550	P=0.594N
POLY 6	P=0.582	P=0.002N**	P=0.002N**	P=0.550	P=0.647N
COCH-ARM / FISHERS	P=0.046N*	P=0.003N**	P=0.003N**	P=0.554	P=0.003N**
MAX-ISO-POLY-3	P=0.797N	P=0.002N**	P=0.002N**	P=0.413	P=0.499N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Kidney					
Nephropathy					
LESION RATES					
OVERALL(a)	0/20 (0%)	3/10 (30%)	10/10 (100%)	8/10 (80%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	3/10.00	10/10.00	8/10.00	0/0.01
POLY-3 PERCENT (g)	0%	30%	100%	80%	0%
TERMINAL (d)	0/20 (0%)	3/10 (30%)	10/10 (100%)	8/10 (80%)	0/0 (0%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	---
STATISTICAL TESTS					
POLY 3	P=0.000**	P=0.017*	P=NA	P=0.000**	(e)
POLY 1.5	P=0.000**	P=0.017*	P=NA	P=0.000**	(e)
POLY 6	P=0.000**	P=0.017*	P=NA	P=0.000**	(e)
COCH-ARM / FISHERS	P=0.485	P=0.030*	P=0.000**	P=0.000**	(e)
MAX-ISO-POLY-3	P=0.000**	P=0.007**	P=0.000**	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Kidney: Renal Tubule					
Casts Granular					
LESION RATES					
OVERALL(a)	0/20 (0%)	3/10 (30%)	10/10 (100%)	10/10 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	3/10.00	10/10.00	10/10.00	0/0.01
POLY-3 PERCENT (g)	0%	30%	100%	100%	0%
TERMINAL (d)	0/20 (0%)	3/10 (30%)	10/10 (100%)	10/10 (100%)	0/0 (0%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	---
STATISTICAL TESTS					
POLY 3	P=0.000**	P=0.017*	P=NA	P=NA	(e)
POLY 1.5	P=0.000**	P=0.017*	P=NA	P=NA	(e)
POLY 6	P=0.000**	P=0.017*	P=NA	P=NA	(e)
COCH-ARM / FISHERS	P=0.375	P=0.030*	P=0.000**	P=0.000**	(e)
MAX-ISO-POLY-3	P=0.000**	P=0.007**	P=0.000**	P=0.000**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Kidney: Renal Tubule Regeneration					
LESION RATES					
OVERALL(a)	18/20 (90%)	7/10 (70%)	0/10 (0%)	5/10 (50%)	0/10 (0%)
POLY-3 RATE (b)	18/20.00	7/10.00	0/10.00	5/10.00	0/0.01
POLY-3 PERCENT (g)	90%	70%	0%	50%	0%
TERMINAL (d)	18/20 (90%)	7/10 (70%)	0/10 (0%)	5/10 (50%)	0/0 (0%)
FIRST INCIDENCE	93(T)	93(T)	---	93(T)	---
STATISTICAL TESTS					
POLY 3	P=0.000N**	P=0.194N	P=0.000N**	P=0.016N*	P=0.729N
POLY 1.5	P=0.000N**	P=0.194N	P=0.000N**	P=0.016N*	P=0.594N
POLY 6	P=0.000N**	P=0.194N	P=0.000N**	P=0.016N*	P=0.734N
COCH-ARM / FISHERS	P=0.000N**	P=0.191N	P=0.000N**	P=0.026N*	P=0.000N**
MAX-ISO-POLY-3	P=0.000N**	P=0.116N	P=0.000N**	P=0.011N*	P=0.496N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL(a)	2/20 (10%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	1/1.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	10%	100%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	93(T)	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	P=0.117	(e)	P=0.400N	P=0.733N
POLY 1.5	(e)	P=0.117	(e)	P=0.400N	P=0.723N
POLY 6	(e)	P=0.117	(e)	P=0.400N	P=0.734N
COCH-ARM / FISHERS	P=0.143N	P=0.143	(e)	P=0.437N	P=0.437N
MAX-ISO-POLY-3	(e)	P=0.020*	(e)	P=0.189N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Liver					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	15/20 (75%)	0/1 (0%)	0/0 (0%)	5/10 (50%)	2/10 (20%)
POLY-3 RATE (b)	15/20.00	0/1.00	0/0.00	5/10.00	2/2.01
POLY-3 PERCENT (g)	75%	0%	0%	50%	99.5%
TERMINAL (d)	15/20 (75%)	0/1 (0%)	0/0 (0%)	5/10 (50%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	10
STATISTICAL TESTS					
POLY 3	(e)	P=0.311N	(e)	P=0.169N	P=0.519
POLY 1.5	(e)	P=0.311N	(e)	P=0.169N	P=0.589
POLY 6	(e)	P=0.311N	(e)	P=0.169N	P=0.517
COCH-ARM / FISHERS	P=0.005N**	P=0.286N	(e)	P=0.169N	P=0.006N**
MAX-ISO-POLY-3	(e)	P=0.117N	(e)	P=0.119N	P=0.383
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:38

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Lung					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	2/20 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	10%	0%	0%	10%	0%
TERMINAL (d)	2/20 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.734	P=0.733N
POLY 1.5	(e)	(e)	(e)	P=0.734	P=0.723N
POLY 6	(e)	(e)	(e)	P=0.734	P=0.734N
COCH-ARM / FISHERS	P=0.294N	(e)	(e)	P=0.719	P=0.437N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:38

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Lung: Alveolus					
Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL(a)	5/20 (25%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	5/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	25%	0%	0%	0%	0%
TERMINAL (d)	5/20 (25%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.108N	P=0.666N
POLY 1.5	(e)	(e)	(e)	P=0.108N	P=0.642N
POLY 6	(e)	(e)	(e)	P=0.108N	P=0.667N
COCH-ARM / FISHERS	P=0.031N*	(e)	(e)	P=0.109N	P=0.109N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.063N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Nose					
Inflammation					
LESION RATES					
OVERALL(a)	16/20 (80%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	16/20.00	0/0.00	0/0.00	2/10.00	0/0.01
POLY-3 PERCENT (g)	80%	0%	0%	20%	0%
TERMINAL (d)	16/20 (80%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.001N**	P=0.677N
POLY 1.5	(e)	(e)	(e)	P=0.001N**	P=0.584N
POLY 6	(e)	(e)	(e)	P=0.001N**	P=0.680N
COCH-ARM / FISHERS	P=0.000N**	(e)	(e)	P=0.003N**	P=0.000N**
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.001N**	P=0.498N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Pancreas					
Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.359	(e)
POLY 1.5	(e)	(e)	(e)	P=0.359	(e)
POLY 6	(e)	(e)	(e)	P=0.359	(e)
COCH-ARM / FISHERS	P=0.622	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.107	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Preputial Gland					
Hyperplasia					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.359	(e)
POLY 1.5	(e)	(e)	(e)	P=0.359	(e)
POLY 6	(e)	(e)	(e)	P=0.359	(e)
COCH-ARM / FISHERS	P=0.622	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.107	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Preputial Gland Inflammation					
LESION RATES					
OVERALL(a)	6/20 (30%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	6/20.00	0/0.00	0/0.00	2/10.00	0/0.01
POLY-3 PERCENT (g)	30%	0%	0%	20%	0%
TERMINAL (d)	6/20 (30%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.444N	P=0.657N
POLY 1.5	(e)	(e)	(e)	P=0.444N	P=0.629N
POLY 6	(e)	(e)	(e)	P=0.444N	P=0.658N
COCH-ARM / FISHERS	P=0.048N*	(e)	(e)	P=0.452N	P=0.065N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.311N	P=0.499N
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Prostate Inflammation					
LESION RATES					
OVERALL(a)	2/20 (10%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	2/20.00	0/0.00	0/0.00	2/10.00	1/1.01
POLY-3 PERCENT (g)	10%	0%	0%	20%	99%
TERMINAL (d)	2/20 (10%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.427	P=0.346
POLY 1.5	(e)	(e)	(e)	P=0.427	P=0.361
POLY 6	(e)	(e)	(e)	P=0.427	P=0.345
COCH-ARM / FISHERS	P=0.558	(e)	(e)	P=0.407	P=0.719
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.261	P=0.249
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS**

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Skin					
Inflammation					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Stomach, Forestomach					
Hyperkeratosis					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	2/2.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.5%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.018*
POLY 1.5	(e)	(e)	(e)	(e)	P=0.020*
POLY 6	(e)	(e)	(e)	(e)	P=0.018*
COCH-ARM / FISHERS	P=0.040*	(e)	(e)	(e)	P=0.103
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.020*
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Stomach, Forestomach					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	1/1.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.190
POLY 1.5	(e)	(e)	(e)	(e)	P=0.195
POLY 6	(e)	(e)	(e)	(e)	P=0.190
COCH-ARM / FISHERS	P=0.180	(e)	(e)	(e)	P=0.333
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.096
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Stomach, Forestomach: Epithelium					
Hyperplasia					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	2/2.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.5%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.018*
POLY 1.5	(e)	(e)	(e)	(e)	P=0.020*
POLY 6	(e)	(e)	(e)	(e)	P=0.018*
COCH-ARM / FISHERS	P=0.040*	(e)	(e)	(e)	P=0.103
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.020*
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Stomach, Glandular Mineralization					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.637N	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.637N	P=0.800N
POLY 6	(e)	(e)	(e)	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.381N	(e)	(e)	P=0.667N	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Stomach, Glandular: Artery					
Mineralization					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.637N	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.637N	P=0.800N
POLY 6	(e)	(e)	(e)	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.381N	(e)	(e)	P=0.667N	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Testes					
Aspermia					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Thymus Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	5/5.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.002**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Trachea					
Inflammation					
LESION RATES					
OVERALL(a)	5/20 (25%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	5/20.00	0/0.00	0/0.00	0/10.00	1/1.01
POLY-3 PERCENT (g)	25%	0%	0%	0%	99%
TERMINAL (d)	5/20 (25%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	10
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.108N	P=0.428
POLY 1.5	(e)	(e)	(e)	P=0.108N	P=0.456
POLY 6	(e)	(e)	(e)	P=0.108N	P=0.427
COCH-ARM / FISHERS	P=0.143N	(e)	(e)	P=0.109N	P=0.326N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.063N	P=0.333
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	MALE				
	UNTREAT CONTROL	3900	7800	15600	31300
Urinary Bladder Inflammation					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.637N	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.637N	P=0.800N
POLY 6	(e)	(e)	(e)	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.381N	(e)	(e)	P=0.667N	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Bone Marrow					
Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/10 (0%)	8/10 (80%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/10.00	8/10.00	4/4.01
POLY-3 PERCENT (g)	0%	0%	0%	80%	99.8%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/10 (0%)	8/10 (80%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.000**	P=0.000**
POLY 1.5	(e)	(e)	(e)	P=0.000**	P=0.000**
POLY 6	(e)	(e)	(e)	P=0.000**	P=0.000**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.000**	P=0.008**
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Bone Marrow Hemorrhage					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/10.00	0/10.00	9/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Clitoral Gland Inflammation					
LESION RATES					
OVERALL(a)	7/20 (35%)	0/0 (0%)	0/0 (0%)	7/10 (70%)	0/10 (0%)
POLY-3 RATE (b)	7/20.00	0/0.00	0/0.00	7/10.00	0/0.01
POLY-3 PERCENT (g)	35%	0%	0%	70%	0%
TERMINAL (d)	7/20 (35%)	0/0 (0%)	0/0 (0%)	7/10 (70%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.073	P=0.652N
POLY 1.5	(e)	(e)	(e)	P=0.073	P=0.624N
POLY 6	(e)	(e)	(e)	P=0.073	P=0.653N
COCH-ARM / FISHERS	P=0.114N	(e)	(e)	P=0.077	P=0.038N*
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.054	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Heart					
Cardiomyopathy					
LESION RATES					
OVERALL(a)	6/20 (30%)	0/0 (0%)	0/0 (0%)	4/10 (40%)	0/10 (0%)
POLY-3 RATE (b)	6/20.00	0/0.00	0/0.00	4/10.00	0/0.01
POLY-3 PERCENT (g)	30%	0%	0%	40%	0%
TERMINAL (d)	6/20 (30%)	0/0 (0%)	0/0 (0%)	4/10 (40%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.447	P=0.658N
POLY 1.5	(e)	(e)	(e)	P=0.447	P=0.633N
POLY 6	(e)	(e)	(e)	P=0.447	P=0.658N
COCH-ARM / FISHERS	P=0.093N	(e)	(e)	P=0.440	P=0.065N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.322	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Intestine Large, Colon					
Parasite Metazoan					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/1.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/1 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Intestine Large, Rectum					
Parasite Metazoan					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	3/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	30%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.017*	(e)
POLY 1.5	(e)	(e)	(e)	P=0.017*	(e)
POLY 6	(e)	(e)	(e)	P=0.017*	(e)
COCH-ARM / FISHERS	P=0.431	(e)	(e)	P=0.030*	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.007**	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Kidney					
Developmental Malformation					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Kidney Mineralization					
LESION RATES					
OVERALL(a)	14/20 (70%)	0/0 (0%)	0/0 (0%)	4/10 (40%)	4/10 (40%)
POLY-3 RATE (b)	14/20.00	0/0.00	0/0.00	4/10.00	4/4.01
POLY-3 PERCENT (g)	70%	0%	0%	40%	99.8%
TERMINAL (d)	14/20 (70%)	0/0 (0%)	0/0 (0%)	4/10 (40%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.116N	P=0.323
POLY 1.5	(e)	(e)	(e)	P=0.116N	P=0.360
POLY 6	(e)	(e)	(e)	P=0.116N	P=0.322
COCH-ARM / FISHERS	P=0.063N	(e)	(e)	P=0.118N	P=0.118N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.084N	P=0.249
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Kidney					
Nephropathy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Kidney: Renal Tubule					
Casts Granular					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Kidney: Renal Tubule Regeneration					
LESION RATES					
OVERALL(a)	5/20 (25%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	5/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	25%	0%	0%	10%	0%
TERMINAL (d)	5/20 (25%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.317N	P=0.667N
POLY 1.5	(e)	(e)	(e)	P=0.317N	P=0.646N
POLY 6	(e)	(e)	(e)	P=0.317N	P=0.667N
COCH-ARM / FISHERS	P=0.055N	(e)	(e)	P=0.326N	P=0.109N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.206N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Liver					
Hepatodiaphragmatic Nodule					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/20.00	0/1.00	0/0.00	0/10.00	1/1.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	99%
TERMINAL (d)	1/20 (5%)	0/1 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	P=0.981N	(e)	P=0.637N	P=0.293
POLY 1.5	(e)	P=0.981N	(e)	P=0.637N	P=0.302
POLY 6	(e)	P=0.981N	(e)	P=0.637N	P=0.292
COCH-ARM / FISHERS	P=0.491	P=0.952N	(e)	P=0.667N	P=0.563
MAX-ISO-POLY-3	(e)	P=0.437N	(e)	P=0.272N	P=0.194
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Liver					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	18/20 (90%)	0/1 (0%)	0/0 (0%)	5/10 (50%)	2/10 (20%)
POLY-3 RATE (b)	18/20.00	0/1.00	0/0.00	5/10.00	2/2.01
POLY-3 PERCENT (g)	90%	0%	0%	50%	99.5%
TERMINAL (d)	18/20 (90%)	0/1 (0%)	0/0 (0%)	5/10 (50%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	9
STATISTICAL TESTS					
POLY 3	(e)	P=0.117N	(e)	P=0.016N*	P=0.670
POLY 1.5	(e)	P=0.117N	(e)	P=0.016N*	P=0.745N
POLY 6	(e)	P=0.117N	(e)	P=0.016N*	P=0.667
COCH-ARM / FISHERS	P=0.000N**	P=0.143N	(e)	P=0.026N*	P=0.000N**
MAX-ISO-POLY-3	(e)	P=0.020N*	(e)	P=0.011N*	P=0.432
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Lung					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	6/20 (30%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	6/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	30%	0%	0%	10%	0%
TERMINAL (d)	6/20 (30%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.225N	P=0.658N
POLY 1.5	(e)	(e)	(e)	P=0.225N	P=0.633N
POLY 6	(e)	(e)	(e)	P=0.225N	P=0.658N
COCH-ARM / FISHERS	P=0.030N*	(e)	(e)	P=0.228N	P=0.065N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.148N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Lung: Alveolus					
Infiltration Cellular Histiocyte					
LESION RATES					
OVERALL(a)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.400N	P=0.733N
POLY 1.5	(e)	(e)	(e)	P=0.400N	P=0.724N
POLY 6	(e)	(e)	(e)	P=0.400N	P=0.734N
COCH-ARM / FISHERS	P=0.191N	(e)	(e)	P=0.437N	P=0.437N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.189N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Nose					
Inflammation					
LESION RATES					
OVERALL(a)	7/20 (35%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	7/20.00	0/0.00	0/0.00	2/10.00	1/1.01
POLY-3 PERCENT (g)	35%	0%	0%	20%	99%
TERMINAL (d)	7/20 (35%)	0/0 (0%)	0/0 (0%)	2/10 (20%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.340N	P=0.463
POLY 1.5	(e)	(e)	(e)	P=0.340N	P=0.493
POLY 6	(e)	(e)	(e)	P=0.340N	P=0.462
COCH-ARM / FISHERS	P=0.093N	(e)	(e)	P=0.344N	P=0.154N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.237N	P=0.365
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Ovary					
Cyst					
LESION RATES					
OVERALL(a)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.400N	P=0.733N
POLY 1.5	(e)	(e)	(e)	P=0.400N	P=0.724N
POLY 6	(e)	(e)	(e)	P=0.400N	P=0.734N
COCH-ARM / FISHERS	P=0.191N	(e)	(e)	P=0.437N	P=0.437N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.189N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Pancreas					
Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.359	(e)
POLY 1.5	(e)	(e)	(e)	P=0.359	(e)
POLY 6	(e)	(e)	(e)	P=0.359	(e)
COCH-ARM / FISHERS	P=0.622	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.107	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Skin					
Inflammation					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	1/1.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.190
POLY 1.5	(e)	(e)	(e)	(e)	P=0.194
POLY 6	(e)	(e)	(e)	(e)	P=0.190
COCH-ARM / FISHERS	P=0.180	(e)	(e)	(e)	P=0.333
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.096
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Stomach, Forestomach					
Hyperkeratosis					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	4/4.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.008**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Stomach, Forestomach					
Inflammation Chronic					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Stomach, Forestomach: Epithelium					
Hyperplasia					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	4/4.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.008**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTEs					
CURR VS HC SAME RTE					
CURR VS HC ALL RTEs					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Stomach, Glandular Mineralization					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.637N	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.637N	P=0.801N
POLY 6	(e)	(e)	(e)	P=0.637N	P=0.805N
COCH-ARM / FISHERS	P=0.381N	(e)	(e)	P=0.667N	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.272N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Stomach, Glandular: Artery					
Mineralization					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	0/0.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
STATISTICAL TESTS					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01
 Test Type: 90-DAY
 Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral
 CAS Number: 5392-40-5

Date Report Requested: 10/23/2014
 Time Report Requested: 05:13:39
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
 LAST REMOVAL AT 2 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Thymus					
Atrophy					
LESION RATES					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/10.00	4/4.01
POLY-3 PERCENT (g)	0%	0%	0%	0%	99.8%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	9
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.008**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Trachea					
Inflammation					
LESION RATES					
OVERALL(a)	8/20 (40%)	0/0 (0%)	0/0 (0%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	8/20.00	0/0.00	0/0.00	3/10.00	0/0.01
POLY-3 PERCENT (g)	40%	0%	0%	30%	0%
TERMINAL (d)	8/20 (40%)	0/0 (0%)	0/0 (0%)	3/10 (30%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.448N	P=0.648N
POLY 1.5	(e)	(e)	(e)	P=0.448N	P=0.616N
POLY 6	(e)	(e)	(e)	P=0.448N	P=0.649N
COCH-ARM / FISHERS	P=0.021N*	(e)	(e)	P=0.452N	P=0.022N*
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.326N	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 2 WEEKS

DOSE	FEMALE				
	VEHICLE CONTROL	3900	7800	15600	31300
Urinary Bladder Inflammation					
LESION RATES					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	1/10.00	0/0.01
POLY-3 PERCENT (g)	5%	0%	0%	10%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/0 (0%)
FIRST INCIDENCE	93(T)	---	---	93(T)	---
STATISTICAL TESTS					
POLY 3	(e)	(e)	(e)	P=0.599	P=0.805N
POLY 1.5	(e)	(e)	(e)	P=0.599	P=0.801N
POLY 6	(e)	(e)	(e)	P=0.599	P=0.805N
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	P=0.563	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.332	P=0.500N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56348-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Citral

CAS Number: 5392-40-5

Date Report Requested: 10/23/2014

Time Report Requested: 05:13:39

First Dose M/F: NA / NA

Lab: BAT

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 ****