

TDMS No. 99002 - 03
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
CAS Number: 109-09-1

Date Report Requested: 01/15/2009
Time Report Requested: 08:39:57
First Dose M/F: 07/28/03 / 07/29/03
Lab: MBA

F2_R2

C Number: C99002B
Lock Date: 12/16/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

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

MALE RATS

Organ

Adrenal Cortex: Zona Fasciculata
Bone Marrow
Kidney: Renal Tubule
Liver

Liver: Hepatocyte
Spleen

Morphology

Vacuolization Cytoplasmic
Hyperplasia
Accumulation, Hyaline Droplet
Basophilic Focus
Clear Cell Focus
Vacuolization Cytoplasmic
Congestion
Hematopoietic Cell Proliferation

FEMALE RATS

Organ

Bone Marrow
Kidney
Liver
Liver: Hepatocyte
Spleen

Morphology

Hyperplasia
Nephropathy
Clear Cell Focus
Vacuolization Cytoplasmic
Congestion
Hematopoietic Cell Proliferation

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Adrenal Cortex: Zona Fasciculata Vacuolization Cytoplasmic						
LESION RATES						
OVERALL (a)	9/10 (90%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
POLY-3 RATE (b)	9/10.00	0/0.00	0/0.00	0/0.00	0/0.00	5/10.00
POLY-3 PERCENT (g)	90%	0%	0%	0%	0%	50%
TERMINAL (d)	9/10 (90%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
FIRST INCIDENCE	92 (T)	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.061N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.061N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.061N
COCH-ARM / FISHERS	P=0.054N	(e)	(e)	(e)	(e)	P=0.070N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.020N*

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Adrenal Cortex: Zona Reticularis						
Vacuolization Cytoplasmic						
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	---	---	---	---	---	92 (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=0.166	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Bone Marrow Hyperplasia						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	2/10 (20%)	1/10 (10%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	0/10.00	2/10.00	1/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	10%	0%	20%	10%	90%	100%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	2/10 (20%)	1/10 (10%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	---	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.500	P=0.760	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.500	P=0.760	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.500	P=0.760	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500	P=0.763N	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.274	P=1.000	P<0.001**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Eye: Sclera Inflammation						
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	(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)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Heart						
Cardiomyopathy						
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	92 (T)	---	---	---	---	92 (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=0.263N	(e)	(e)	(e)	(e)	P=0.314N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.172N

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	3/10 (30%)	2/10 (20%)	5/10 (50%)	6/10 (60%)	3/10 (30%)	4/10 (40%)
POLY-3 RATE (b)	3/10.00	2/10.00	5/10.00	6/10.00	3/10.00	4/10.00
POLY-3 PERCENT (g)	30%	20%	50%	60%	30%	40%
TERMINAL (d)	3/10 (30%)	2/10 (20%)	5/10 (50%)	6/10 (60%)	3/10 (30%)	4/10 (40%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P=0.559	P=0.500N	P=0.329	P=0.186	P=0.678	P=0.500
POLY 1.5	P=0.559	P=0.500N	P=0.329	P=0.186	P=0.678	P=0.500
POLY 6	P=0.559	P=0.500N	P=0.329	P=0.186	P=0.678	P=0.500
COCH-ARM / FISHERS	P=0.559	P=0.500N	P=0.325	P=0.185	P=0.686N	P=0.500
MAX-ISO-POLY-3	P=0.182	P=0.310N	P=0.188	P=0.089	P=1.000	P=0.325

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Kidney: Renal Tubule Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)	5/10 (50%)	0/10 (0%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	9/10.00	5/10.00	0/10.00
POLY-3 PERCENT (g)	100%	100%	100%	90%	50%	0%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)	5/10 (50%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	---
STATISTICAL TESTS						
POLY 3	P<0.001N**	(e)	(e)	P=0.500N	P=0.008N**	P<0.001N**
POLY 1.5	P<0.001N**	(e)	(e)	P=0.500N	P=0.008N**	P<0.001N**
POLY 6	P<0.001N**	(e)	(e)	P=0.500N	P=0.008N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	(e)	(e)	P=0.500N	P=0.016N*	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	P=0.158N	P<0.001N**	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver						
Basophilic Focus						
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	---	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver						
Clear Cell Focus						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	6/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	60%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)
FIRST INCIDENCE	---	---	---	---	---	92 (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=0.005**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	P<0.001**

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver: Hepatocyte Vacuolization Cytoplasmic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	6/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	60%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	92 (T)	92 (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=0.005**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lung						
Infiltration Cellular Focal 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	92 (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=0.379N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lung						
Metaplasia Osseous						
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	92 (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=0.166N	(e)	(e)	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066N

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 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lymph Node, Mesenteric: Sinus Histiocytosis						
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	---	---	---	---	---	92 (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=0.166	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Salivary Glands: Parotid Gland						
Basophilic Focus						
LESION RATES						
OVERALL (a)	2/9 (22%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
POLY-3 RATE (b)	2/9.00	0/0.00	0/0.00	0/0.00	0/0.00	5/10.00
POLY-3 PERCENT (g)	22.2%	0%	0%	0%	0%	50%
TERMINAL (d)	2/9 (22%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
FIRST INCIDENCE	92 (T)	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.221
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.221
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.221
COCH-ARM / FISHERS	P=0.179	(e)	(e)	(e)	(e)	P=0.220
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.113

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen Congestion						
LESION RATES						
OVERALL (a)	4/10 (40%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	4/10.00	1/10.00	2/10.00	0/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	40%	10%	20%	0%	70%	100%
TERMINAL (d)	4/10 (40%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	7/10 (70%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	---	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.148N	P=0.318N	P=0.033N*	P=0.186	P<0.001**
POLY 1.5	P<0.001**	P=0.148N	P=0.318N	P=0.033N*	P=0.186	P<0.001**
POLY 6	P<0.001**	P=0.148N	P=0.318N	P=0.033N*	P=0.186	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.152N	P=0.314N	P=0.043N*	P=0.185	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P=0.058N	P=0.172N	P=0.007N**	P=0.089	P<0.001**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen						
Hematopoietic Cell Proliferation						
LESION RATES						
OVERALL (a)	4/10 (40%)	8/10 (80%)	6/10 (60%)	6/10 (60%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	4/10.00	8/10.00	6/10.00	6/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	40%	80%	60%	60%	100%	100%
TERMINAL (d)	4/10 (40%)	8/10 (80%)	6/10 (60%)	6/10 (60%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P=0.004**	P=0.077	P=0.333	P=0.333	P<0.001**	P<0.001**
POLY 1.5	P=0.004**	P=0.077	P=0.333	P=0.333	P<0.001**	P<0.001**
POLY 6	P=0.004**	P=0.077	P=0.333	P=0.333	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.008**	P=0.085	P=0.328	P=0.328	P=0.005**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P=0.029*	P=0.193	P=0.193	P<0.001**	P<0.001**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen Pigmentation						
LESION RATES						
OVERALL (a)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%	100%	100%	100%	100%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Thyroid 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	92 (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=0.379N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Adrenal Cortex: Zona Fasciculata						
Vacuolization Cytoplasmic						
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	(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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Adrenal Cortex: Zona Reticularis						
Vacuolization Cytoplasmic						
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	(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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Bone Marrow Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	92 (T)	92 (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*	P<0.001**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Eye: Sclera Inflammation						
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	---	---	---	---	---	92 (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=0.166	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Heart						
Cardiomyopathy						
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	92 (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=0.379N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Kidney						
Nephropathy						
LESION RATES						
OVERALL (a)	2/10 (20%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)	5/10 (50%)
POLY-3 RATE (b)	2/10.00	0/10.00	1/10.00	1/10.00	2/10.00	5/10.00
POLY-3 PERCENT (g)	20%	0%	10%	10%	20%	50%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)	5/10 (50%)
FIRST INCIDENCE	92 (T)	---	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P=0.004**	P=0.227N	P=0.500N	P=0.500N	P=0.702	P=0.174
POLY 1.5	P=0.004**	P=0.227N	P=0.500N	P=0.500N	P=0.702	P=0.174
POLY 6	P=0.004**	P=0.227N	P=0.500N	P=0.500N	P=0.702	P=0.174
COCH-ARM / FISHERS	P=0.005**	P=0.237N	P=0.500N	P=0.500N	P=0.709N	P=0.175
MAX-ISO-POLY-3	P=0.004**	P=0.066N	P=0.274N	P=0.274N	P=1.000	P=0.079

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Kidney: Renal Tubule Accumulation, Hyaline Droplet						
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	(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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver						
Basophilic Focus						
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	(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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver						
Clear Cell Focus						
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	---	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
POLY 6	P=0.007**	(e)	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.066

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Liver: Hepatocyte Vacuolization Cytoplasmic						
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	---	---	---	---	---	92 (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**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lung						
Infiltration Cellular Focal Mononuclear Cell						
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	92 (T)	---	---	---	---	92 (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=0.444N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.325N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lung						
Metaplasia Osseous						
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	(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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Lymph Node, Mesenteric: Sinus Histiocytosis						
LESION RATES						
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	60%	0%	0%	0%	0%	40%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	92 (T)	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.333N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.333N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.333N
COCH-ARM / FISHERS	P=0.280N	(e)	(e)	(e)	(e)	P=0.328N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.193N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Salivary Glands: Parotid Gland						
Basophilic Focus						
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	92 (T)	---	---	---	---	92 (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=0.438N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.310N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen Congestion						
LESION RATES						
OVERALL (a)	1/10 (10%)	7/10 (70%)	5/10 (50%)	6/10 (60%)	6/10 (60%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	7/10.00	5/10.00	6/10.00	6/10.00	10/10.00
POLY-3 PERCENT (g)	10%	70%	50%	60%	60%	100%
TERMINAL (d)	1/10 (10%)	7/10 (70%)	5/10 (50%)	6/10 (60%)	6/10 (60%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.003**	P=0.061	P=0.018*	P=0.018*	P<0.001**
POLY 1.5	P<0.001**	P=0.003**	P=0.061	P=0.018*	P=0.018*	P<0.001**
POLY 6	P<0.001**	P=0.003**	P=0.061	P=0.018*	P=0.018*	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.010**	P=0.070	P=0.029*	P=0.029*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P=0.020*	P=0.004**	P=0.004**	P<0.001**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen						
Hematopoietic Cell Proliferation						
LESION RATES						
OVERALL (a)	3/10 (30%)	3/10 (30%)	6/10 (60%)	3/10 (30%)	7/10 (70%)	10/10 (100%)
POLY-3 RATE (b)	3/10.00	3/10.00	6/10.00	3/10.00	7/10.00	10/10.00
POLY-3 PERCENT (g)	30%	30%	60%	30%	70%	100%
TERMINAL (d)	3/10 (30%)	3/10 (30%)	6/10 (60%)	3/10 (30%)	7/10 (70%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.678	P=0.186	P=0.678	P=0.082	P<0.001**
POLY 1.5	P<0.001**	P=0.678	P=0.186	P=0.678	P=0.082	P<0.001**
POLY 6	P<0.001**	P=0.678	P=0.186	P=0.678	P=0.082	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.686N	P=0.185	P=0.686N	P=0.089	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P=1.000	P=0.089	P=1.000	P=0.032*	P<0.001**

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Spleen Pigmentation						
LESION RATES						
OVERALL (a)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%	100%	100%	100%	100%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)	92 (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)

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Thyroid Gland 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	92 (T)	---	---	---	---	92 (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=0.425N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274N

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Uterus Dilatation						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	30%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	92 (T)	---	---	---	---	92 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292
COCH-ARM / FISHERS	P=0.234	(e)	(e)	(e)	(e)	P=0.291
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.136

TDMS No. 99002 - 03
 Test Type: 90-DAY
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
 CAS Number: 109-09-1

Date Report Requested: 01/15/2009
 Time Report Requested: 08:39:57
 First Dose M/F: 07/28/03 / 07/29/03
 Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	VEHICLE CONTROL	10 PPM	30 PPM	100 PPM	300 PPM	1000 PPM
Uterus						
Hydrometra						
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	92 (T)	---	---	---	---	92 (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=0.425	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274

TDMS No. 99002 - 03
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

o-Chloropyridine
CAS Number: 109-09-1

Date Report Requested: 01/15/2009
Time Report Requested: 08:39:57
First Dose M/F: 07/28/03 / 07/29/03
Lab: MBA

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.
 - (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 ***