

TDMS No. 2009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

F2_R2

C Number: C20009
Lock Date: 06/05/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.1.0_004
PWG Approval Date: 06/29/2010

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

MALE RATS

Organ

Adrenal Cortex

Adrenal Medulla

Heart: Atrium

Liver

Liver: Bile Duct

Mammary Gland

Nose

Nose: Respiratory Epithelium

Pancreas: Acinus

Prostate

Skin

Stomach, Forestomach

Stomach, Glandular

Testes

Trachea: Glands

FEMALE RATS

Organ

Adrenal Medulla

Heart

Kidney

Liver

Liver: Bile Duct

Lung: Alveolar Epithelium

Morphology

Hyperplasia

Vacuolization Cytoplasmic

Hyperplasia

Thrombosis

Clear Cell Focus

Eosinophilic Focus

Inflammation Chronic

Hyperplasia

Hyperplasia

Foreign Body

Ulcer

Atrophy

Inflammation

Hyperplasia

Fibrosis

Hyperplasia

Ulcer

Atrophy

Cyst

Morphology

Hyperplasia

Mineralization

Mineralization

Angiectasis

Basophilic Focus

Fatty Change Focal

Hepatodiaphragmatic Nodule

Vacuolization Cytoplasmic

Hyperplasia

Hyperplasia

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

Mammary Gland
Nose: Nasolacrimal Duct
Nose: Turbinate
Ovary
Spleen
Stomach, Glandular
Uterus: Endometrium

Metaplasia
Galactocele
Inflammation
Cyst
Cyst
Hyperplasia Lymphoid
Mineralization
Hyperplasia Cystic

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex				
Accessory Adrenal Cortical Nodule				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/42.53	0/45.40	0/45.14	2/42.31
POLY-3 PERCENT (g)	4.7%	0%	0%	4.7%
TERMINAL (d)	2/33 (6%)	0/31 (0%)	0/32 (0%)	2/24 (8%)
FIRST INCIDENCE	726 (T)	---	---	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.223N	P=0.224N	P=0.692
POLY 1.5	P=0.493	P=0.225N	P=0.226N	P=0.688N
POLY 6	P=0.484	P=0.222N	P=0.224N	P=0.677
COCH-ARM / FISHERS	P=0.500	P=0.247N	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.265	P=0.076N	P=0.076N	P=0.497

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	20/50 (40%)	31/50 (62%)	27/50 (54%)	21/50 (42%)
POLY-3 RATE (b)	20/42.97	31/47.89	27/46.92	21/44.49
POLY-3 PERCENT (g)	46.6%	64.7%	57.5%	47.2%
TERMINAL (d)	18/33 (55%)	21/31 (68%)	19/32 (59%)	11/24 (46%)
FIRST INCIDENCE	654	498	615	618
STATISTICAL TESTS				
POLY 3	P=0.334N	P=0.057	P=0.199	P=0.562
POLY 1.5	P=0.322N	P=0.044*	P=0.174	P=0.562
POLY 6	P=0.367N	P=0.072	P=0.226	P=0.545
COCH-ARM / FISHERS	P=0.378N	P=0.022*	P=0.115	P=0.500
MAX-ISO-POLY-3	P=0.278	P=0.044*	P=0.154	P=0.475

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TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.97	0/45.40	1/45.52	0/42.31
POLY-3 PERCENT (g)	2.3%	0%	2.2%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	600	---	618	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex				
Vacuolization Cytoplasmic				
<hr/>				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/42.53	0/45.40	0/45.14	1/42.44
POLY-3 PERCENT (g)	7.1%	0%	0%	2.4%
TERMINAL (d)	3/33 (9%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	---	694
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.253N	P=0.107N	P=0.108N	P=0.306N
POLY 1.5	P=0.252N	P=0.109N	P=0.110N	P=0.299N
POLY 6	P=0.251N	P=0.107N	P=0.108N	P=0.320N
COCH-ARM / FISHERS	P=0.247N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.041N*	P=0.038N*	P=0.038N*	P=0.154N

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TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	18/49 (37%)	13/49 (27%)	7/50 (14%)
POLY-3 RATE (b)	12/42.72	18/45.56	13/44.39	7/43.24
POLY-3 PERCENT (g)	28.1%	39.5%	29.3%	16.2%
TERMINAL (d)	11/33 (33%)	12/31 (39%)	10/31 (32%)	3/24 (13%)
FIRST INCIDENCE	677	589	692	607
STATISTICAL TESTS				
POLY 3	P=0.047N*	P=0.180	P=0.545	P=0.140N
POLY 1.5	P=0.044N*	P=0.166	P=0.534	P=0.136N
POLY 6	P=0.057N	P=0.191	P=0.546	P=0.154N
COCH-ARM / FISHERS	P=0.054N	P=0.123	P=0.477	P=0.154N
MAX-ISO-POLY-3	P=0.053N	P=0.135	P=0.450	P=0.091N

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TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Brain Compression				
LESION RATES				
OVERALL (a)	5/50 (10%)	9/50 (18%)	8/50 (16%)	9/50 (18%)
POLY-3 RATE (b)	5/43.21	9/46.47	8/46.36	9/43.40
POLY-3 PERCENT (g)	11.6%	19.4%	17.3%	20.7%
TERMINAL (d)	4/33 (12%)	5/31 (16%)	2/32 (6%)	2/24 (8%)
FIRST INCIDENCE	499	498	615	624
STATISTICAL TESTS				
POLY 3	P=0.216	P=0.234	P=0.322	P=0.192
POLY 1.5	P=0.230	P=0.227	P=0.312	P=0.202
POLY 6	P=0.196	P=0.238	P=0.333	P=0.175
COCH-ARM / FISHERS	P=0.224	P=0.194	P=0.277	P=0.194
MAX-ISO-POLY-3	P=0.216	P=0.164	P=0.232	P=0.123

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Brain Hemorrhage				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/42.99	0/45.40	2/45.62	3/43.70
POLY-3 PERCENT (g)	2.3%	0%	4.4%	6.9%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	593	---	643	543
STATISTICAL TESTS				
POLY 3	P=0.101	P=0.489N	P=0.521	P=0.311
POLY 1.5	P=0.104	P=0.490N	P=0.517	P=0.315
POLY 6	P=0.096	P=0.490N	P=0.522	P=0.299
COCH-ARM / FISHERS	P=0.104	P=0.500N	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.116	P=0.158N	P=0.303	P=0.160

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Epididymis Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/42.53	0/45.40	2/45.40	2/42.78
POLY-3 PERCENT (g)	0%	0%	4.4%	4.7%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	---	---	657	631
STATISTICAL TESTS				
POLY 3	P=0.082	(e)	P=0.252	P=0.238
POLY 1.5	P=0.086	(e)	P=0.249	P=0.242
POLY 6	P=0.076	(e)	P=0.253	P=0.230
COCH-ARM / FISHERS	P=0.086	(e)	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.121	(e)	P=0.090	P=0.077

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Eye				
Cataract				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/42.99	3/45.55	1/45.14	3/42.99
POLY-3 PERCENT (g)	4.7%	6.6%	2.2%	7%
TERMINAL (d)	0/33 (0%)	2/31 (7%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	654	686	726 (T)	545
STATISTICAL TESTS				
POLY 3	P=0.474	P=0.526	P=0.483N	P=0.500
POLY 1.5	P=0.483	P=0.523	P=0.484N	P=0.509
POLY 6	P=0.457	P=0.524	P=0.486N	P=0.480
COCH-ARM / FISHERS	P=0.477	P=0.500	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.484	P=0.351	P=0.271N	P=0.323

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Eye: Cornea				
Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	2/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	2/32 (6%)	0/24 (0%)
FIRST INCIDENCE	---	---	726 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.578	(e)	P=0.251	(e)
POLY 1.5	P=0.593	(e)	P=0.249	(e)
POLY 6	P=0.551	(e)	P=0.250	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.264	(e)	P=0.089	(e)

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TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l

Eye: Cornea
Inflammation Chronic

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/42.69	0/45.40	0/45.14	1/42.31
POLY-3 PERCENT (g)	2.3%	0%	0%	2.4%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	1/24 (4%)
FIRST INCIDENCE	685	---	---	726 (T)

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Eye: Retina Degeneration				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/42.53	1/45.98	1/45.14	1/42.32
POLY-3 PERCENT (g)	0%	2.2%	2.2%	2.4%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	---	544	726 (T)	723
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.53	0/45.40	2/45.40	0/42.31
POLY-3 PERCENT (g)	2.4%	0%	4.4%	0%
TERMINAL (d)	1/33 (3%)	0/31 (0%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	657	---
STATISTICAL TESTS				
POLY 3	P=0.474N	P=0.487N	P=0.523	P=0.501N
POLY 1.5	P=0.466N	P=0.489N	P=0.518	P=0.497N
POLY 6	P=0.489N	P=0.487N	P=0.525	P=0.510N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.334N	P=0.158N	P=0.305	P=0.160N

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Harderian Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	49/50 (98%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	49/49.00	50/50.00	50/50.00	49/49.58
POLY-3 PERCENT (g)	100%	100%	100%	98.8%
TERMINAL (d)	33/33 (100%)	31/31 (100%)	32/32 (100%)	24/24 (100%)
FIRST INCIDENCE	273	498	393	499
STATISTICAL TESTS				
POLY 3	P=0.359N	P=1.000	P=1.000	P=0.762N
POLY 1.5	P=0.265N	P=1.000	P=1.000	P=0.625N
POLY 6	P=0.676N	P=0.500	P=0.500	P=0.972N
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.128N	P=0.161	P=0.161	P=0.163N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Heart Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	1/45.44	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	717	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Heart: Atrium Thrombosis				
LESION RATES				
OVERALL (a)	5/50 (10%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/43.65	5/45.67	0/45.14	0/42.31
POLY-3 PERCENT (g)	11.5%	11%	0%	0%
TERMINAL (d)	1/33 (3%)	2/31 (7%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	600	694	---	---
STATISTICAL TESTS				
POLY 3	P=0.005N**	P=0.602N	P=0.028N*	P=0.033N*
POLY 1.5	P=0.005N**	P=0.602N	P=0.028N*	P=0.030N*
POLY 6	P=0.006N**	P=0.611N	P=0.029N*	P=0.039N*
COCH-ARM / FISHERS	P=0.006N**	P=0.630N	P=0.028N*	P=0.028N*
MAX-ISO-POLY-3	P=0.008N**	P=0.469N	P=0.010N**	P=0.011N*

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Large, Colon				
Parasite Metazoan				
LESION RATES				
OVERALL (a)	3/47 (6%)	4/49 (8%)	7/49 (14%)	1/49 (2%)
POLY-3 RATE (b)	3/40.73	4/44.63	7/44.68	1/41.45
POLY-3 PERCENT (g)	7.4%	9%	15.7%	2.4%
TERMINAL (d)	2/33 (6%)	4/31 (13%)	6/32 (19%)	1/24 (4%)
FIRST INCIDENCE	600	726 (T)	721	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.284N	P=0.550	P=0.197	P=0.298N
POLY 1.5	P=0.262N	P=0.549	P=0.196	P=0.288N
POLY 6	P=0.325N	P=0.542	P=0.190	P=0.321N
COCH-ARM / FISHERS	P=0.261N	P=0.524	P=0.176	P=0.293N
MAX-ISO-POLY-3	P=0.147N	P=0.396	P=0.125	P=0.149N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Large, Rectum Parasite Metazoan				
LESION RATES				
OVERALL (a)	2/47 (4%)	5/49 (10%)	3/49 (6%)	5/50 (10%)
POLY-3 RATE (b)	2/40.29	5/44.95	3/45.05	5/42.69
POLY-3 PERCENT (g)	5%	11.1%	6.7%	11.7%
TERMINAL (d)	2/33 (6%)	4/31 (13%)	2/32 (6%)	4/24 (17%)
FIRST INCIDENCE	726 (T)	638	615	618
STATISTICAL TESTS				
POLY 3	P=0.268	P=0.262	P=0.551	P=0.239
POLY 1.5	P=0.281	P=0.258	P=0.545	P=0.249
POLY 6	P=0.244	P=0.261	P=0.551	P=0.217
COCH-ARM / FISHERS	P=0.274	P=0.235	P=0.520	P=0.244
MAX-ISO-POLY-3	P=0.234	P=0.162	P=0.375	P=0.137

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Small, Jejunum Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/45 (2%)	0/47 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/39.48	0/42.91	0/43.68	0/41.78
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Kidney Cyst				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Fibrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Infarct				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney				
Nephropathy				
LESION RATES				
OVERALL (a)	48/50 (96%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	48/48.05	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	99.9%	100%	100%	100%
TERMINAL (d)	33/33 (100%)	31/31 (100%)	32/32 (100%)	24/24 (100%)
FIRST INCIDENCE	391	498	393	499
STATISTICAL TESTS				
POLY 3	P=1.000	P=1.000	P=1.000	P=1.000
POLY 1.5	P=0.962	P=0.999	P=0.999	P=0.999
POLY 6	P=1.000	P=1.000	P=1.000	P=1.000
COCH-ARM / FISHERS	P=0.115	P=0.247	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.125	P=0.161	P=0.161	P=0.161

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney: Papilla Hemorrhage				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney: Pelvis				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	1/45.40	2/45.14	0/42.31
POLY-3 PERCENT (g)	0%	2.2%	4.4%	0%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	2/32 (6%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	726 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.622N	P=0.513	P=0.251	(e)
POLY 1.5	P=0.613N	P=0.511	P=0.249	(e)
POLY 6	P=0.639N	P=0.513	P=0.250	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.345	P=0.174	P=0.089	(e)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Liver				
Angiectasis				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.53	0/45.40	1/45.14	0/42.31
POLY-3 PERCENT (g)	2.4%	0%	2.2%	0%
TERMINAL (d)	1/33 (3%)	0/31 (0%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	726 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	15/50 (30%)	14/50 (28%)	16/50 (32%)	10/50 (20%)
POLY-3 RATE (b)	15/42.53	14/45.40	16/45.14	10/43.14
POLY-3 PERCENT (g)	35.3%	30.8%	35.5%	23.2%
TERMINAL (d)	15/33 (46%)	14/31 (45%)	16/32 (50%)	8/24 (33%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	586
STATISTICAL TESTS				
POLY 3	P=0.155N	P=0.415N	P=0.582	P=0.157N
POLY 1.5	P=0.146N	P=0.430N	P=0.568	P=0.153N
POLY 6	P=0.176N	P=0.412N	P=0.584	P=0.175N
COCH-ARM / FISHERS	P=0.161N	P=0.500N	P=0.500	P=0.178N
MAX-ISO-POLY-3	P=0.185N	P=0.333N	P=0.492	P=0.107N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Liver				
Clear Cell Focus				
<hr/>				
LESION RATES				
OVERALL (a)	13/50 (26%)	23/50 (46%)	20/50 (40%)	15/50 (30%)
POLY-3 RATE (b)	13/42.53	23/45.40	20/45.14	15/42.31
POLY-3 PERCENT (g)	30.6%	50.7%	44.3%	35.5%
TERMINAL (d)	13/33 (39%)	23/31 (74%)	20/32 (63%)	15/24 (63%)
FIRST INCIDENCE	726 (T)	726 (T)	726 (T)	726 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.516N	P=0.040*	P=0.130	P=0.401
POLY 1.5	P=0.475N	P=0.040*	P=0.127	P=0.429
POLY 6	P=0.484	P=0.036*	P=0.124	P=0.341
COCH-ARM / FISHERS	P=0.490N	P=0.030*	P=0.101	P=0.412
MAX-ISO-POLY-3	P=0.171	P=0.028*	P=0.095	P=0.314

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	3/50 (6%)	6/50 (12%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	3/42.53	6/45.52	7/45.52	2/42.31
POLY-3 PERCENT (g)	7.1%	13.2%	15.4%	4.7%
TERMINAL (d)	3/33 (9%)	5/31 (16%)	6/32 (19%)	2/24 (8%)
FIRST INCIDENCE	726 (T)	694	618	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.349N	P=0.276	P=0.186	P=0.502N
POLY 1.5	P=0.331N	P=0.270	P=0.180	P=0.493N
POLY 6	P=0.385N	P=0.277	P=0.187	P=0.523N
COCH-ARM / FISHERS	P=0.338N	P=0.243	P=0.159	P=0.500N
MAX-ISO-POLY-3	P=0.224N	P=0.180	P=0.117	P=0.326N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	7/50 (14%)	1/50 (2%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	7/42.53	1/45.40	2/45.19	5/42.31
POLY-3 PERCENT (g)	16.5%	2.2%	4.4%	11.8%
TERMINAL (d)	7/33 (21%)	1/31 (3%)	1/32 (3%)	5/24 (21%)
FIRST INCIDENCE	726 (T)	726 (T)	713	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.500N	P=0.023N*	P=0.064N	P=0.382N
POLY 1.5	P=0.491N	P=0.025N*	P=0.067N	P=0.368N
POLY 6	P=0.511N	P=0.023N*	P=0.063N	P=0.413N
COCH-ARM / FISHERS	P=0.482N	P=0.030N*	P=0.080N	P=0.380N
MAX-ISO-POLY-3	P=0.068N	P=0.011N*	P=0.034N*	P=0.271N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	7/50 (14%)	6/50 (12%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	7/45.43	6/46.22	7/45.99	9/44.51
POLY-3 PERCENT (g)	15.4%	13%	15.2%	20.2%
TERMINAL (d)	1/33 (3%)	2/31 (7%)	2/32 (6%)	0/24 (0%)
FIRST INCIDENCE	273	645	643	551
STATISTICAL TESTS				
POLY 3	P=0.263	P=0.487N	P=0.604N	P=0.374
POLY 1.5	P=0.277	P=0.484N	P=0.600N	P=0.392
POLY 6	P=0.241	P=0.495N	P=0.613N	P=0.346
COCH-ARM / FISHERS	P=0.282	P=0.500N	P=0.613N	P=0.393
MAX-ISO-POLY-3	P=0.359	P=0.370N	P=0.489N	P=0.278

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Liver				
Fatty Change Focal				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	4/42.53	3/45.55	2/45.14	6/42.48
POLY-3 PERCENT (g)	9.4%	6.6%	4.4%	14.1%
TERMINAL (d)	4/33 (12%)	1/31 (3%)	2/32 (6%)	3/24 (13%)
FIRST INCIDENCE	726 (T)	694	726 (T)	702
STATISTICAL TESTS				
POLY 3	P=0.238	P=0.463N	P=0.310N	P=0.368
POLY 1.5	P=0.247	P=0.469N	P=0.314N	P=0.380
POLY 6	P=0.223	P=0.460N	P=0.309N	P=0.342
COCH-ARM / FISHERS	P=0.248	P=0.500N	P=0.339N	P=0.370
MAX-ISO-POLY-3	P=0.184	P=0.319N	P=0.186N	P=0.251

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/42.53	3/45.92	3/46.29	1/42.31
POLY-3 PERCENT (g)	0%	6.5%	6.5%	2.4%
TERMINAL (d)	0/33 (0%)	2/31 (7%)	1/32 (3%)	1/24 (4%)
FIRST INCIDENCE	---	567	393	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.519	P=0.133	P=0.135	P=0.499
POLY 1.5	P=0.534	P=0.130	P=0.131	P=0.503
POLY 6	P=0.488	P=0.134	P=0.136	P=0.490
COCH-ARM / FISHERS	P=0.526	P=0.121	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.182	P=0.050*	P=0.051	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	6/50 (12%)	3/50 (6%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	6/42.72	3/45.40	6/45.14	3/42.31
POLY-3 PERCENT (g)	14%	6.6%	13.3%	7.1%
TERMINAL (d)	5/33 (15%)	3/31 (10%)	6/32 (19%)	3/24 (13%)
FIRST INCIDENCE	676	726 (T)	726 (T)	726 (T)
STATISTICAL TESTS				
POLY 3	P=0.298N	P=0.212N	P=0.582N	P=0.245N
POLY 1.5	P=0.283N	P=0.217N	P=0.587N	P=0.235N
POLY 6	P=0.324N	P=0.213N	P=0.585N	P=0.269N
COCH-ARM / FISHERS	P=0.279N	P=0.243N	P=0.620N	P=0.243N
MAX-ISO-POLY-3	P=0.242N	P=0.132N	P=0.459N	P=0.149N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Liver Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/43.16	3/45.58	0/45.14	2/43.39
POLY-3 PERCENT (g)	4.6%	6.6%	0%	4.6%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	600	686	---	552
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.471N	P=0.525	P=0.227N	P=0.692N
POLY 1.5	P=0.467N	P=0.522	P=0.228N	P=0.686N
POLY 6	P=0.479N	P=0.522	P=0.229N	P=0.682
COCH-ARM / FISHERS	P=0.474N	P=0.500	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.346N	P=0.349	P=0.076N	P=0.497N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Vacuolization Cytoplasmic				
LESION RATES				
OVERALL (a)	15/50 (30%)	12/50 (24%)	12/50 (24%)	16/50 (32%)
POLY-3 RATE (b)	15/42.80	12/46.41	12/46.48	16/43.59
POLY-3 PERCENT (g)	35.1%	25.9%	25.8%	36.7%
TERMINAL (d)	14/33 (42%)	8/31 (26%)	7/32 (22%)	11/24 (46%)
FIRST INCIDENCE	654	567	586	586
STATISTICAL TESTS				
POLY 3	P=0.375	P=0.237N	P=0.236N	P=0.526
POLY 1.5	P=0.393	P=0.257N	P=0.258N	P=0.538
POLY 6	P=0.342	P=0.223N	P=0.217N	P=0.490
COCH-ARM / FISHERS	P=0.384	P=0.326N	P=0.326N	P=0.500
MAX-ISO-POLY-3	P=0.349	P=0.181N	P=0.180N	P=0.434

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	40/50 (80%)	36/50 (72%)	44/50 (88%)	42/50 (84%)
POLY-3 RATE (b)	40/44.49	36/46.66	44/47.83	42/46.74
POLY-3 PERCENT (g)	89.9%	77.2%	92%	89.9%
TERMINAL (d)	31/33 (94%)	27/31 (87%)	31/32 (97%)	23/24 (96%)
FIRST INCIDENCE	600	645	586	543
STATISTICAL TESTS				
POLY 3	P=0.254	P=0.068N	P=0.506	P=0.652N
POLY 1.5	P=0.255	P=0.092N	P=0.417	P=0.613
POLY 6	P=0.234	P=0.066N	P=0.570	P=0.656
COCH-ARM / FISHERS	P=0.180	P=0.241N	P=0.207	P=0.398
MAX-ISO-POLY-3	P=0.190	P=0.039N*	P=0.350	P=0.496N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Liver: Serosa				
Fibrosis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	11/50 (22%)	12/50 (24%)	8/50 (16%)
POLY-3 RATE (b)	12/43.52	11/46.83	12/46.21	8/42.96
POLY-3 PERCENT (g)	27.6%	23.5%	26%	18.6%
TERMINAL (d)	9/33 (27%)	7/31 (23%)	9/32 (28%)	5/24 (21%)
FIRST INCIDENCE	504	544	393	624
STATISTICAL TESTS				
POLY 3	P=0.222N	P=0.419N	P=0.527N	P=0.231N
POLY 1.5	P=0.202N	P=0.436N	P=0.535N	P=0.216N
POLY 6	P=0.261N	P=0.412N	P=0.532N	P=0.265N
COCH-ARM / FISHERS	P=0.199N	P=0.500N	P=0.592N	P=0.227N
MAX-ISO-POLY-3	P=0.275N	P=0.333N	P=0.432N	P=0.162N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	1/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Bronchiole Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Serosa Fibrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lymph Node, Mesenteric Ectasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	2/45.40	2/45.14	0/42.31
POLY-3 PERCENT (g)	0%	4.4%	4.4%	0%
TERMINAL (d)	0/33 (0%)	2/31 (7%)	2/32 (6%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	726 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.502N	P=0.252	P=0.251	(e)
POLY 1.5	P=0.492N	P=0.250	P=0.249	(e)
POLY 6	P=0.522N	P=0.252	P=0.250	(e)
COCH-ARM / FISHERS	P=0.500N	P=0.247	P=0.247	(e)
MAX-ISO-POLY-3	P=0.292	P=0.090	P=0.089	(e)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lymph Node: Mediastinal Ectasia				
LESION RATES				
OVERALL (a)	1/9 (11%)	1/11 (9%)	4/11 (36%)	3/8 (38%)
POLY-3 RATE (b)	1/6.46	1/9.17	4/10.31	3/6.74
POLY-3 PERCENT (g)	15.5%	10.9%	38.8%	44.5%
TERMINAL (d)	1/4 (25%)	1/4 (25%)	3/7 (43%)	2/2 (100%)
FIRST INCIDENCE	726 (T)	726 (T)	393	702
STATISTICAL TESTS				
POLY 3	P=0.103	P=0.683N	P=0.327	P=0.291
POLY 1.5	P=0.097	P=0.692N	P=0.286	P=0.275
POLY 6	P=0.108	P=0.688N	P=0.361	P=0.296
COCH-ARM / FISHERS	P=0.085	P=0.711N	P=0.221	P=0.241
MAX-ISO-POLY-3	P=0.163	P=0.408N	P=0.201	P=0.136

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	12/50 (24%)	7/49 (14%)	9/50 (18%)	12/50 (24%)
POLY-3 RATE (b)	12/43.36	7/44.92	9/46.19	12/43.57
POLY-3 PERCENT (g)	27.7%	15.6%	19.5%	27.5%
TERMINAL (d)	8/33 (24%)	4/30 (13%)	3/32 (9%)	4/24 (17%)
FIRST INCIDENCE	654	673	643	624
STATISTICAL TESTS				
POLY 3	P=0.398	P=0.129N	P=0.253N	P=0.590N
POLY 1.5	P=0.415	P=0.134N	P=0.264N	P=0.571N
POLY 6	P=0.370	P=0.131N	P=0.249N	P=0.561
COCH-ARM / FISHERS	P=0.413	P=0.166N	P=0.312N	P=0.592N
MAX-ISO-POLY-3	P=0.362N	P=0.087N	P=0.188N	P=0.494N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	6/49 (12%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	3/42.53	6/45.28	0/45.14	5/42.87
POLY-3 PERCENT (g)	7.1%	13.3%	0%	11.7%
TERMINAL (d)	3/33 (9%)	4/30 (13%)	0/32 (0%)	2/24 (8%)
FIRST INCIDENCE	726 (T)	498	---	657
STATISTICAL TESTS				
POLY 3	P=0.472	P=0.273	P=0.108N	P=0.360
POLY 1.5	P=0.478	P=0.265	P=0.110N	P=0.368
POLY 6	P=0.459	P=0.278	P=0.108N	P=0.342
COCH-ARM / FISHERS	P=0.467	P=0.233	P=0.121N	P=0.357
MAX-ISO-POLY-3	P=0.331	P=0.179	P=0.038N*	P=0.234

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	1/4 (25%)	6/8 (75%)	3/4 (75%)	5/6 (83%)
POLY-3 RATE (b)	1/2.61	6/7.71	3/4.00	5/5.87
POLY-3 PERCENT (g)	38.4%	77.8%	75%	85.1%
TERMINAL (d)	1/1 (100%)	4/4 (100%)	2/3 (67%)	1/1 (100%)
FIRST INCIDENCE	726 (T)	664	586	551
STATISTICAL TESTS				
POLY 3	P=0.317	P=0.349	P=0.453	P=0.287
POLY 1.5	P=0.253	P=0.276	P=0.377	P=0.212
POLY 6	P=0.388	P=0.437	P=0.548	P=0.383
COCH-ARM / FISHERS	P=0.122	P=0.152	P=0.243	P=0.119
MAX-ISO-POLY-3	P=0.244	P=0.192	P=0.232	P=0.133

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose				
Foreign Body				
LESION RATES				
OVERALL (a)	10/50 (20%)	20/50 (40%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	10/43.21	20/46.49	15/45.91	10/44.12
POLY-3 PERCENT (g)	23.1%	43%	32.7%	22.7%
TERMINAL (d)	6/33 (18%)	14/31 (45%)	11/32 (34%)	4/24 (17%)
FIRST INCIDENCE	654	638	618	499
STATISTICAL TESTS				
POLY 3	P=0.263N	P=0.035*	P=0.221	P=0.580N
POLY 1.5	P=0.251N	P=0.033*	P=0.215	P=0.569N
POLY 6	P=0.303N	P=0.035*	P=0.219	P=0.591
COCH-ARM / FISHERS	P=0.287N	P=0.024*	P=0.178	P=0.598N
MAX-ISO-POLY-3	P=0.223N	P=0.025*	P=0.165	P=0.478N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose Inflammation				
LESION RATES				
OVERALL (a)	21/50 (42%)	23/50 (46%)	16/50 (32%)	24/50 (48%)
POLY-3 RATE (b)	21/44.39	23/47.05	16/46.22	24/45.45
POLY-3 PERCENT (g)	47.3%	48.9%	34.6%	52.8%
TERMINAL (d)	14/33 (42%)	14/31 (45%)	11/32 (34%)	13/24 (54%)
FIRST INCIDENCE	467	638	618	545
STATISTICAL TESTS				
POLY 3	P=0.395	P=0.523	P=0.152N	P=0.376
POLY 1.5	P=0.414	P=0.506	P=0.158N	P=0.392
POLY 6	P=0.352	P=0.529	P=0.157N	P=0.332
COCH-ARM / FISHERS	P=0.386	P=0.420	P=0.204N	P=0.344
MAX-ISO-POLY-3	P=0.308	P=0.440	P=0.111N	P=0.300

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Nasolacrimal Duct Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.69	0/45.40	1/45.53	0/42.31
POLY-3 PERCENT (g)	2.3%	0%	2.2%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	685	---	615	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	14/50 (28%)	20/50 (40%)	15/50 (30%)	17/50 (34%)
POLY-3 RATE (b)	14/44.12	20/46.74	15/45.91	17/43.79
POLY-3 PERCENT (g)	31.7%	42.8%	32.7%	38.8%
TERMINAL (d)	9/33 (27%)	12/31 (39%)	11/32 (34%)	10/24 (42%)
FIRST INCIDENCE	467	638	618	568
STATISTICAL TESTS				
POLY 3	P=0.409	P=0.190	P=0.552	P=0.317
POLY 1.5	P=0.445	P=0.184	P=0.549	P=0.345
POLY 6	P=0.345	P=0.190	P=0.541	P=0.264
COCH-ARM / FISHERS	P=0.439	P=0.146	P=0.500	P=0.333
MAX-ISO-POLY-3	P=0.399	P=0.143	P=0.462	P=0.243

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Respiratory Epithelium Ulcer				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	467	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.114N	P=0.228N	P=0.229N	P=0.243N
POLY 1.5	P=0.116N	P=0.228N	P=0.229N	P=0.237N
POLY 6	P=0.111N	P=0.230N	P=0.231N	P=0.256N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.037N*	P=0.076N	P=0.076N	P=0.082N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Nose: Turbinate Cyst				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Basophilic Focus				
<hr/>				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/41.77	0/45.40	0/45.14	0/40.90
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas Cyst				
LESION RATES				
OVERALL (a)	1/49 (2%)	0/50 (0%)	2/50 (4%)	0/48 (0%)
POLY-3 RATE (b)	1/41.93	0/45.40	2/45.14	0/40.90
POLY-3 PERCENT (g)	2.4%	0%	4.4%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	2/32 (6%)	0/24 (0%)
FIRST INCIDENCE	683	---	726 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.479N	P=0.484N	P=0.526	P=0.505N
POLY 1.5	P=0.471N	P=0.486N	P=0.524	P=0.501N
POLY 6	P=0.493N	P=0.485N	P=0.523	P=0.515N
COCH-ARM / FISHERS	P=0.467N	P=0.495N	P=0.508	P=0.505N
MAX-ISO-POLY-3	P=0.336N	P=0.157N	P=0.307	P=0.163N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Hyperplasia				
LESION RATES				
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	1/48 (2%)
POLY-3 RATE (b)	2/41.77	0/45.40	0/45.14	1/41.11
POLY-3 PERCENT (g)	4.8%	0%	0%	2.4%
TERMINAL (d)	2/33 (6%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	---	673
STATISTICAL TESTS				
POLY 3	P=0.474N	P=0.219N	P=0.220N	P=0.506N
POLY 1.5	P=0.474N	P=0.221N	P=0.222N	P=0.500N
POLY 6	P=0.471N	P=0.219N	P=0.220N	P=0.520N
COCH-ARM / FISHERS	P=0.467N	P=0.242N	P=0.242N	P=0.508N
MAX-ISO-POLY-3	P=0.131N	P=0.074N	P=0.074N	P=0.285N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Infiltration Cellular				
LESION RATES				
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	0/48 (0%)
POLY-3 RATE (b)	0/41.77	1/45.40	1/45.44	0/40.90
POLY-3 PERCENT (g)	0%	2.2%	2.2%	0%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	643	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	18/49 (37%)	31/50 (62%)	31/50 (62%)	25/48 (52%)
POLY-3 RATE (b)	18/43.26	31/47.88	31/47.67	25/44.10
POLY-3 PERCENT (g)	41.6%	64.8%	65%	56.7%
TERMINAL (d)	15/33 (46%)	20/31 (65%)	21/32 (66%)	13/24 (54%)
FIRST INCIDENCE	391	567	569	499
STATISTICAL TESTS				
POLY 3	P=0.198	P=0.019*	P=0.018*	P=0.110
POLY 1.5	P=0.209	P=0.016*	P=0.015*	P=0.115
POLY 6	P=0.171	P=0.023*	P=0.021*	P=0.098
COCH-ARM / FISHERS	P=0.172	P=0.010**	P=0.010**	P=0.094
MAX-ISO-POLY-3	P=0.038*	P=0.014*	P=0.013*	P=0.077

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pituitary Gland Cyst				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/49 (0%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	2/42.53	0/44.44	2/46.04	0/41.31
POLY-3 PERCENT (g)	4.7%	0%	4.3%	0%
TERMINAL (d)	2/33 (6%)	0/31 (0%)	0/32 (0%)	0/23 (0%)
FIRST INCIDENCE	726 (T)	---	569	---
STATISTICAL TESTS				
POLY 3	P=0.262N	P=0.227N	P=0.665N	P=0.243N
POLY 1.5	P=0.256N	P=0.230N	P=0.672N	P=0.239N
POLY 6	P=0.273N	P=0.227N	P=0.661N	P=0.254N
COCH-ARM / FISHERS	P=0.250N	P=0.253N	P=0.691N	P=0.253N
MAX-ISO-POLY-3	P=0.128N	P=0.077N	P=0.468N	P=0.081N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	16/50 (32%)	11/49 (22%)	19/50 (38%)	12/49 (24%)
POLY-3 RATE (b)	16/43.42	11/45.57	19/47.81	12/44.45
POLY-3 PERCENT (g)	36.9%	24.1%	39.7%	27%
TERMINAL (d)	12/33 (36%)	5/31 (16%)	12/32 (38%)	5/23 (22%)
FIRST INCIDENCE	593	589	393	543

STATISTICAL TESTS

POLY 3	P=0.337N	P=0.140N	P=0.473	P=0.221N
POLY 1.5	P=0.334N	P=0.151N	P=0.439	P=0.224N
POLY 6	P=0.361N	P=0.134N	P=0.495	P=0.236N
COCH-ARM / FISHERS	P=0.373N	P=0.200N	P=0.338	P=0.272N
MAX-ISO-POLY-3	P=0.268N	P=0.100N	P=0.391	P=0.163N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Preputial Gland Inflammation				
LESION RATES				
OVERALL (a)	15/50 (30%)	10/50 (20%)	10/50 (20%)	13/50 (26%)
POLY-3 RATE (b)	15/43.15	10/45.72	10/45.31	13/43.04
POLY-3 PERCENT (g)	34.8%	21.9%	22.1%	30.2%
TERMINAL (d)	12/33 (36%)	8/31 (26%)	7/32 (22%)	9/24 (38%)
FIRST INCIDENCE	664	684	701	624
STATISTICAL TESTS				
POLY 3	P=0.477N	P=0.130N	P=0.136N	P=0.411N
POLY 1.5	P=0.455N	P=0.138N	P=0.141N	P=0.389N
POLY 6	P=0.516N	P=0.131N	P=0.138N	P=0.464N
COCH-ARM / FISHERS	P=0.455N	P=0.178N	P=0.178N	P=0.412N
MAX-ISO-POLY-3	P=0.235N	P=0.092N	P=0.096N	P=0.324N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Prostate Inflammation				
LESION RATES				
OVERALL (a)	31/49 (63%)	45/50 (90%)	45/50 (90%)	35/50 (70%)
POLY-3 RATE (b)	31/44.77	45/49.53	45/48.90	35/46.05
POLY-3 PERCENT (g)	69.3%	90.9%	92%	76%
TERMINAL (d)	21/33 (64%)	27/31 (87%)	29/32 (91%)	19/24 (79%)
FIRST INCIDENCE	499	498	569	543
STATISTICAL TESTS				
POLY 3	P=0.473	P=0.006**	P=0.003**	P=0.307
POLY 1.5	P=0.547N	P=0.004**	P=0.003**	P=0.350
POLY 6	P=0.333	P=0.008**	P=0.004**	P=0.233
COCH-ARM / FISHERS	P=0.517	P=0.002**	P=0.002**	P=0.310
MAX-ISO-POLY-3	P=0.018*	P=0.004**	P=0.002**	P=0.230

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Seminal Vesicle Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.53	0/45.40	2/45.52	1/42.32
POLY-3 PERCENT (g)	0%	0%	4.4%	2.4%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	---	---	618	723
STATISTICAL TESTS				
POLY 3	P=0.233	(e)	P=0.253	P=0.499
POLY 1.5	P=0.243	(e)	P=0.250	P=0.503
POLY 6	P=0.215	(e)	P=0.254	P=0.490
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.186	(e)	P=0.091	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Skin				
Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	2/33 (6%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.117N	P=0.223N	P=0.224N	P=0.238N
POLY 1.5	P=0.117N	P=0.225N	P=0.226N	P=0.234N
POLY 6	P=0.114N	P=0.222N	P=0.224N	P=0.248N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.033N*	P=0.076N	P=0.076N	P=0.077N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Skin				
Ulcer				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Spleen Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Spleen				
Hyperplasia Lymphoid				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	1/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Fibrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	6/50 (12%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/42.53	6/45.69	2/45.43	1/42.67
POLY-3 PERCENT (g)	2.4%	13.1%	4.4%	2.3%
TERMINAL (d)	1/33 (3%)	4/31 (13%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	664	646	624
STATISTICAL TESTS				
POLY 3	P=0.280N	P=0.068	P=0.523	P=0.760N
POLY 1.5	P=0.274N	P=0.066	P=0.519	P=0.756N
POLY 6	P=0.297N	P=0.068	P=0.525	P=0.753
COCH-ARM / FISHERS	P=0.292N	P=0.056	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.216N	P=0.034*	P=0.305	P=0.498N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Hyperplasia				
LESION RATES				
OVERALL (a)	15/50 (30%)	18/50 (36%)	7/50 (14%)	17/50 (34%)
POLY-3 RATE (b)	15/45.92	18/48.16	7/45.89	17/44.27
POLY-3 PERCENT (g)	32.7%	37.4%	15.3%	38.4%
TERMINAL (d)	8/33 (24%)	9/31 (29%)	3/32 (9%)	7/24 (29%)
FIRST INCIDENCE	16	498	646	618
STATISTICAL TESTS				
POLY 3	P=0.474	P=0.397	P=0.041N*	P=0.363
POLY 1.5	P=0.506	P=0.381	P=0.041N*	P=0.395
POLY 6	P=0.427	P=0.404	P=0.044N*	P=0.313
COCH-ARM / FISHERS	P=0.532	P=0.335	P=0.045N*	P=0.415
MAX-ISO-POLY-3	P=0.256	P=0.320	P=0.024N*	P=0.288

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.53	1/45.40	0/45.14	2/42.49
POLY-3 PERCENT (g)	0%	2.2%	0%	4.7%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	726 (T)	---	694
STATISTICAL TESTS				
POLY 3	P=0.140	P=0.513	(e)	P=0.237
POLY 1.5	P=0.142	P=0.511	(e)	P=0.241
POLY 6	P=0.134	P=0.513	(e)	P=0.228
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.077	P=0.174	(e)	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	2/50 (4%)	5/50 (10%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/43.40	5/46.36	2/45.31	2/42.67
POLY-3 PERCENT (g)	4.6%	10.8%	4.4%	4.7%
TERMINAL (d)	0/33 (0%)	1/31 (3%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	499	544	681	664
STATISTICAL TESTS				
POLY 3	P=0.404N	P=0.244	P=0.678N	P=0.688
POLY 1.5	P=0.392N	P=0.239	P=0.679N	P=0.691N
POLY 6	P=0.426N	P=0.245	P=0.681N	P=0.671
COCH-ARM / FISHERS	P=0.397N	P=0.218	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.436N	P=0.146	P=0.482N	P=0.492

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Erosion				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.20	3/45.78	0/45.14	0/42.31
POLY-3 PERCENT (g)	2.3%	6.6%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	504	664	---	---
STATISTICAL TESTS				
POLY 3	P=0.149N	P=0.326	P=0.491N	P=0.504N
POLY 1.5	P=0.146N	P=0.323	P=0.492N	P=0.499N
POLY 6	P=0.155N	P=0.327	P=0.492N	P=0.514N
COCH-ARM / FISHERS	P=0.153N	P=0.309	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.135N	P=0.176	P=0.158N	P=0.164N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Inflammation Chronic				
LESION RATES				
OVERALL (a)	4/50 (8%)	6/50 (12%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	4/42.53	6/45.94	4/46.20	3/42.93
POLY-3 PERCENT (g)	9.4%	13.1%	8.7%	7%
TERMINAL (d)	4/33 (12%)	2/31 (7%)	1/32 (3%)	0/24 (0%)
FIRST INCIDENCE	726 (T)	664	393	657
STATISTICAL TESTS				
POLY 3	P=0.317N	P=0.419	P=0.597N	P=0.495N
POLY 1.5	P=0.309N	P=0.408	P=0.607N	P=0.488N
POLY 6	P=0.334N	P=0.426	P=0.592N	P=0.512N
COCH-ARM / FISHERS	P=0.319N	P=0.370	P=0.643N	P=0.500N
MAX-ISO-POLY-3	P=0.411N	P=0.302	P=0.452N	P=0.343N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Ulcer				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.53	0/45.40	0/45.14	2/42.97
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/33 (0%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	552
STATISTICAL TESTS				
POLY 3	P=0.044*	(e)	(e)	P=0.239
POLY 1.5	P=0.045*	(e)	(e)	P=0.243
POLY 6	P=0.043*	(e)	(e)	P=0.231
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	P=0.078

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Testes				
Atrophy				
LESION RATES				
OVERALL (a)	3/50 (6%)	9/50 (18%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	3/43.48	9/45.86	5/45.48	3/43.01
POLY-3 PERCENT (g)	6.9%	19.6%	11%	7%
TERMINAL (d)	2/33 (6%)	4/31 (13%)	3/32 (9%)	1/24 (4%)
FIRST INCIDENCE	273	673	673	499
STATISTICAL TESTS				
POLY 3	P=0.321N	P=0.071	P=0.381	P=0.658
POLY 1.5	P=0.308N	P=0.069	P=0.377	P=0.659N
POLY 6	P=0.349N	P=0.072	P=0.383	P=0.640
COCH-ARM / FISHERS	P=0.316N	P=0.061	P=0.357	P=0.661N
MAX-ISO-POLY-3	P=0.280N	P=0.041*	P=0.256	P=0.494

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Testes: Interstitial Cell Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	18/50 (36%)	17/50 (34%)	13/50 (26%)
POLY-3 RATE (b)	12/42.89	18/47.17	17/47.18	13/44.10
POLY-3 PERCENT (g)	28%	38.2%	36%	29.5%
TERMINAL (d)	10/33 (30%)	11/31 (36%)	8/32 (25%)	5/24 (21%)
FIRST INCIDENCE	677	567	569	607
STATISTICAL TESTS				
POLY 3	P=0.482N	P=0.211	P=0.277	P=0.533
POLY 1.5	P=0.468N	P=0.191	P=0.251	P=0.538
POLY 6	P=0.513N	P=0.229	P=0.304	P=0.513
COCH-ARM / FISHERS	P=0.500N	P=0.138	P=0.189	P=0.500
MAX-ISO-POLY-3	P=0.418	P=0.163	P=0.218	P=0.437

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	6/50 (12%)	4/50 (8%)	11/50 (22%)	7/50 (14%)
POLY-3 RATE (b)	6/42.69	4/45.42	11/45.92	7/42.97
POLY-3 PERCENT (g)	14.1%	8.8%	24%	16.3%
TERMINAL (d)	5/33 (15%)	3/31 (10%)	8/32 (25%)	4/24 (17%)
FIRST INCIDENCE	685	720	586	607
STATISTICAL TESTS				
POLY 3	P=0.274	P=0.331N	P=0.180	P=0.505
POLY 1.5	P=0.291	P=0.337N	P=0.172	P=0.517
POLY 6	P=0.244	P=0.331N	P=0.184	P=0.477
COCH-ARM / FISHERS	P=0.291	P=0.370N	P=0.143	P=0.500
MAX-ISO-POLY-3	P=0.213	P=0.227N	P=0.127	P=0.386

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Trachea: Glands				
Cyst				
LESION RATES				
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.03	0/45.40	0/45.14	0/42.31
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/31 (0%)	0/32 (0%)	0/24 (0%)
FIRST INCIDENCE	654	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.114N	P=0.220N	P=0.221N	P=0.235N
POLY 1.5	P=0.115N	P=0.222N	P=0.223N	P=0.230N
POLY 6	P=0.111N	P=0.222N	P=0.223N	P=0.247N
COCH-ARM / FISHERS	P=0.113N	P=0.242N	P=0.242N	P=0.242N
MAX-ISO-POLY-3	P=0.032N*	P=0.074N	P=0.074N	P=0.075N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex				
Accessory Adrenal Cortical Nodule				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.67	1/43.58	0/45.24	1/43.27
POLY-3 PERCENT (g)	2.3%	2.3%	0%	2.3%
TERMINAL (d)	1/30 (3%)	1/32 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	727 (T)	---	685
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	26/50 (52%)	25/50 (50%)	34/50 (68%)	22/50 (44%)
POLY-3 RATE (b)	26/44.63	25/45.48	34/47.23	22/44.88
POLY-3 PERCENT (g)	58.3%	55%	72%	49%
TERMINAL (d)	22/30 (73%)	20/32 (63%)	28/33 (85%)	17/30 (57%)
FIRST INCIDENCE	621	474	526	515
STATISTICAL TESTS				
POLY 3	P=0.279N	P=0.458N	P=0.112	P=0.247N
POLY 1.5	P=0.287N	P=0.472N	P=0.097	P=0.255N
POLY 6	P=0.277N	P=0.449N	P=0.127	P=0.244N
COCH-ARM / FISHERS	P=0.307N	P=0.500N	P=0.076	P=0.274N
MAX-ISO-POLY-3	P=0.160N	P=0.373N	P=0.080	P=0.184N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.15	1/44.05	1/45.27	1/43.45
POLY-3 PERCENT (g)	4.5%	2.3%	2.2%	2.3%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	608	588	721	632
STATISTICAL TESTS				
POLY 3	P=0.411N	P=0.501N	P=0.491N	P=0.506N
POLY 1.5	P=0.410N	P=0.500N	P=0.494N	P=0.503N
POLY 6	P=0.413N	P=0.502N	P=0.491N	P=0.511N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.425N	P=0.281N	P=0.275N	P=0.287N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Cortex				
Vacuolization Cytoplasmic				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.37	1/43.63	1/45.41	1/43.11
POLY-3 PERCENT (g)	4.5%	2.3%	2.2%	2.3%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	488	715	683	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.412N	P=0.506N	P=0.492N	P=0.510N
POLY 1.5	P=0.411N	P=0.503N	P=0.495N	P=0.505N
POLY 6	P=0.414N	P=0.508N	P=0.490N	P=0.517N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.432N	P=0.287N	P=0.276N	P=0.292N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	5/44.04	3/43.58	1/45.24	3/43.24
POLY-3 PERCENT (g)	11.4%	6.9%	2.2%	6.9%
TERMINAL (d)	4/30 (13%)	3/32 (9%)	1/33 (3%)	2/30 (7%)
FIRST INCIDENCE	625	727 (T)	727 (T)	693
STATISTICAL TESTS				
POLY 3	P=0.272N	P=0.362N	P=0.095N	P=0.366N
POLY 1.5	P=0.272N	P=0.359N	P=0.097N	P=0.361N
POLY 6	P=0.274N	P=0.366N	P=0.094N	P=0.375N
COCH-ARM / FISHERS	P=0.273N	P=0.357N	P=0.102N	P=0.357N
MAX-ISO-POLY-3	P=0.168N	P=0.236N	P=0.043N*	P=0.241N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Brain Compression				
LESION RATES				
OVERALL (a)	13/50 (26%)	7/50 (14%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	13/46.16	7/45.01	7/45.49	9/45.05
POLY-3 PERCENT (g)	28.2%	15.6%	15.4%	20%
TERMINAL (d)	4/30 (13%)	4/32 (13%)	5/33 (15%)	3/30 (10%)
FIRST INCIDENCE	488	474	690	474
STATISTICAL TESTS				
POLY 3	P=0.273N	P=0.113N	P=0.108N	P=0.251N
POLY 1.5	P=0.270N	P=0.109N	P=0.106N	P=0.243N
POLY 6	P=0.279N	P=0.120N	P=0.114N	P=0.264N
COCH-ARM / FISHERS	P=0.267N	P=0.105N	P=0.105N	P=0.235N
MAX-ISO-POLY-3	P=0.144N	P=0.073N	P=0.069N	P=0.183N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Brain Hemorrhage				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.67	2/44.06	0/45.24	1/43.45
POLY-3 PERCENT (g)	0%	4.5%	0%	2.3%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	614	---	632
STATISTICAL TESTS				
POLY 3	P=0.539	P=0.239	(e)	P=0.499
POLY 1.5	P=0.540	P=0.238	(e)	P=0.500
POLY 6	P=0.538	P=0.240	(e)	P=0.498
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.332	P=0.078	(e)	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Clitoral Gland Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.84	1/43.58	2/45.46	1/43.11
POLY-3 PERCENT (g)	2.3%	2.3%	4.4%	2.3%
TERMINAL (d)	0/30 (0%)	1/32 (3%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	683	727 (T)	670	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.583	P=0.759	P=0.513	P=0.757
POLY 1.5	P=0.587	P=0.760	P=0.508	P=0.759
POLY 6	P=0.576	P=0.758	P=0.516	P=0.753
COCH-ARM / FISHERS	P=0.591	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.596	P=0.498	P=0.294	P=0.494

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Clitoral Gland Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	2/44.28	4/43.58	3/45.24	4/43.22
POLY-3 PERCENT (g)	4.5%	9.2%	6.6%	9.3%
TERMINAL (d)	0/30 (0%)	4/32 (13%)	3/33 (9%)	3/30 (10%)
FIRST INCIDENCE	579	727 (T)	727 (T)	700
STATISTICAL TESTS				
POLY 3	P=0.321	P=0.330	P=0.510	P=0.326
POLY 1.5	P=0.327	P=0.333	P=0.507	P=0.332
POLY 6	P=0.311	P=0.324	P=0.509	P=0.316
COCH-ARM / FISHERS	P=0.331	P=0.339	P=0.500	P=0.339
MAX-ISO-POLY-3	P=0.329	P=0.196	P=0.334	P=0.194

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Clitoral Gland Inflammation				
LESION RATES				
OVERALL (a)	9/50 (18%)	5/50 (10%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	9/44.64	5/44.30	6/45.46	6/43.63
POLY-3 PERCENT (g)	20.2%	11.3%	13.2%	13.8%
TERMINAL (d)	6/30 (20%)	4/32 (13%)	5/33 (15%)	4/30 (13%)
FIRST INCIDENCE	509	474	670	607
STATISTICAL TESTS				
POLY 3	P=0.318N	P=0.195N	P=0.273N	P=0.302N
POLY 1.5	P=0.314N	P=0.194N	P=0.278N	P=0.295N
POLY 6	P=0.325N	P=0.199N	P=0.272N	P=0.314N
COCH-ARM / FISHERS	P=0.309N	P=0.194N	P=0.288N	P=0.288N
MAX-ISO-POLY-3	P=0.267N	P=0.126N	P=0.190N	P=0.215N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Eye				
Cataract				
LESION RATES				
OVERALL (a)	8/50 (16%)	13/48 (27%)	14/48 (29%)	10/50 (20%)
POLY-3 RATE (b)	8/43.86	13/44.06	14/45.67	10/45.10
POLY-3 PERCENT (g)	18.2%	29.5%	30.7%	22.2%
TERMINAL (d)	5/30 (17%)	9/32 (28%)	8/33 (24%)	6/30 (20%)
FIRST INCIDENCE	701	616	527	515
STATISTICAL TESTS				
POLY 3	P=0.485	P=0.160	P=0.130	P=0.422
POLY 1.5	P=0.474	P=0.150	P=0.114	P=0.413
POLY 6	P=0.491	P=0.176	P=0.150	P=0.429
COCH-ARM / FISHERS	P=0.454	P=0.138	P=0.093	P=0.398
MAX-ISO-POLY-3	P=0.264	P=0.109	P=0.091	P=0.324

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l

Eye: Cornea
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/48 (2%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	1/42.66	0/43.92	0/43.11
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	1/32 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	727 (T)	---	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l

Eye: Cornea
Inflammation Chronic

LESION RATES				
OVERALL (a)	2/50 (4%)	0/48 (0%)	1/48 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.67	0/42.66	1/44.03	0/43.11
POLY-3 PERCENT (g)	4.6%	0%	2.3%	0%
TERMINAL (d)	2/30 (7%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	---	701	---

STATISTICAL TESTS				
POLY 3	P=0.191N	P=0.242N	P=0.497N	P=0.240N
POLY 1.5	P=0.190N	P=0.244N	P=0.504N	P=0.238N
POLY 6	P=0.192N	P=0.240N	P=0.491N	P=0.243N
COCH-ARM / FISHERS	P=0.188N	P=0.258N	P=0.515N	P=0.247N
MAX-ISO-POLY-3	P=0.084N	P=0.079N	P=0.281N	P=0.079N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Eye: Retina Degeneration				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/48 (4%)	4/48 (8%)	3/50 (6%)
POLY-3 RATE (b)	1/43.67	2/42.66	4/44.12	3/43.11
POLY-3 PERCENT (g)	2.3%	4.7%	9.1%	7%
TERMINAL (d)	1/30 (3%)	2/32 (6%)	3/33 (9%)	3/30 (10%)
FIRST INCIDENCE	727 (T)	727 (T)	676	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.218	P=0.492	P=0.181	P=0.300
POLY 1.5	P=0.223	P=0.489	P=0.176	P=0.303
POLY 6	P=0.210	P=0.495	P=0.187	P=0.295
COCH-ARM / FISHERS	P=0.226	P=0.485	P=0.168	P=0.309
MAX-ISO-POLY-3	P=0.210	P=0.273	P=0.088	P=0.152

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.67	0/43.58	2/45.41	1/43.43
POLY-3 PERCENT (g)	0%	0%	4.4%	2.3%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	683	638
STATISTICAL TESTS				
POLY 3	P=0.242	(e)	P=0.246	P=0.499
POLY 1.5	P=0.244	(e)	P=0.243	P=0.500
POLY 6	P=0.239	(e)	P=0.248	P=0.497
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.181	(e)	P=0.084	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Harderian Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.67	1/44.20	0/45.24	0/43.11
POLY-3 PERCENT (g)	4.6%	2.3%	0%	0%
TERMINAL (d)	2/30 (7%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	526	---	---
STATISTICAL TESTS				
POLY 3	P=0.100N	P=0.496N	P=0.229N	P=0.240N
POLY 1.5	P=0.100N	P=0.497N	P=0.232N	P=0.238N
POLY 6	P=0.100N	P=0.494N	P=0.227N	P=0.243N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.081N	P=0.278N	P=0.076N	P=0.079N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	48/50 (96%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	48/49.84	50/50.00	50/50.00	49/49.56
POLY-3 PERCENT (g)	96.3%	100%	100%	98.9%
TERMINAL (d)	30/30 (100%)	32/32 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	454	474	526	474
STATISTICAL TESTS				
POLY 3	P=0.322	P=0.257	P=0.257	P=0.423
POLY 1.5	P=0.383	P=0.247	P=0.247	P=0.457
POLY 6	P=0.245	P=0.280	P=0.280	P=0.382
COCH-ARM / FISHERS	P=0.461	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.076	P=0.077	P=0.077	P=0.184

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Heart Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/45.24	2/43.71
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	598
STATISTICAL TESTS				
POLY 3	P=0.046*	(e)	(e)	P=0.237
POLY 1.5	P=0.046*	(e)	(e)	P=0.238
POLY 6	P=0.046*	(e)	(e)	P=0.236
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.033*	(e)	(e)	P=0.076

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l

Heart: Atrium
Thrombosis

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	1/43.63	0/45.24	0/43.11
POLY-3 PERCENT (g)	2.3%	2.3%	0%	0%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	715	---	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Large, Colon				
Parasite Metazoan				
LESION RATES				
OVERALL (a)	3/47 (6%)	2/48 (4%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	3/40.93	2/42.36	2/45.86	1/42.73
POLY-3 PERCENT (g)	7.3%	4.7%	4.4%	2.3%
TERMINAL (d)	2/29 (7%)	2/32 (6%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	682	727 (T)	526	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.217N	P=0.484N	P=0.448N	P=0.289N
POLY 1.5	P=0.218N	P=0.487N	P=0.457N	P=0.289N
POLY 6	P=0.219N	P=0.481N	P=0.442N	P=0.292N
COCH-ARM / FISHERS	P=0.218N	P=0.490N	P=0.470N	P=0.293N
MAX-ISO-POLY-3	P=0.234N	P=0.312N	P=0.287N	P=0.145N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Large, Rectum Parasite Metazoan				
LESION RATES				
OVERALL (a)	3/47 (6%)	8/48 (17%)	1/50 (2%)	7/49 (14%)
POLY-3 RATE (b)	3/40.75	8/42.67	1/45.24	7/43.82
POLY-3 PERCENT (g)	7.4%	18.8%	2.2%	16%
TERMINAL (d)	3/29 (10%)	7/32 (22%)	1/33 (3%)	4/30 (13%)
FIRST INCIDENCE	727 (T)	645	727 (T)	540
STATISTICAL TESTS				
POLY 3	P=0.309	P=0.111	P=0.268N	P=0.187
POLY 1.5	P=0.303	P=0.108	P=0.274N	P=0.183
POLY 6	P=0.314	P=0.115	P=0.264N	P=0.190
COCH-ARM / FISHERS	P=0.294	P=0.106	P=0.285N	P=0.176
MAX-ISO-POLY-3	P=0.169	P=0.064	P=0.137N	P=0.115

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Intestine Small, Jejunum Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/48 (2%)	0/46 (0%)	2/47 (4%)	1/48 (2%)
POLY-3 RATE (b)	1/41.81	0/41.37	2/43.54	1/42.17
POLY-3 PERCENT (g)	2.4%	0%	4.6%	2.4%
TERMINAL (d)	0/29 (0%)	0/32 (0%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	701	---	727 (T)	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.500	P=0.502N	P=0.514	P=0.759N
POLY 1.5	P=0.502	P=0.505N	P=0.506	P=0.759N
POLY 6	P=0.495	P=0.499N	P=0.522	P=0.760N
COCH-ARM / FISHERS	P=0.504	P=0.511N	P=0.492	P=0.753N
MAX-ISO-POLY-3	P=0.401	P=0.161N	P=0.297	P=0.497N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Cyst				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.71	0/43.58	2/45.47	0/43.11
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	666	---
STATISTICAL TESTS				
POLY 3	P=0.590	(e)	P=0.251	(e)
POLY 1.5	P=0.594	(e)	P=0.248	(e)
POLY 6	P=0.582	(e)	P=0.254	(e)
COCH-ARM / FISHERS	P=0.598	(e)	P=0.253	(e)
MAX-ISO-POLY-3	P=0.263	(e)	P=0.089	(e)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Fibrosis				
LESION RATES				
OVERALL (a)	8/49 (16%)	7/50 (14%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.68	7/43.58	8/47.35	10/45.10
POLY-3 PERCENT (g)	18.3%	16.1%	16.9%	22.2%
TERMINAL (d)	5/30 (17%)	7/32 (22%)	2/33 (6%)	5/30 (17%)
FIRST INCIDENCE	579	727 (T)	526	515
STATISTICAL TESTS				
POLY 3	P=0.326	P=0.502N	P=0.539N	P=0.426
POLY 1.5	P=0.318	P=0.493N	P=0.558N	P=0.423
POLY 6	P=0.333	P=0.517N	P=0.519N	P=0.426
COCH-ARM / FISHERS	P=0.305	P=0.483N	P=0.590N	P=0.416
MAX-ISO-POLY-3	P=0.436	P=0.389N	P=0.431N	P=0.327

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Infarct				
LESION RATES				
OVERALL (a)	7/49 (14%)	8/50 (16%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	7/43.58	8/43.88	4/45.86	5/43.75
POLY-3 PERCENT (g)	16.1%	18.2%	8.7%	11.4%
TERMINAL (d)	5/30 (17%)	7/32 (22%)	3/33 (9%)	4/30 (13%)
FIRST INCIDENCE	579	645	526	515
STATISTICAL TESTS				
POLY 3	P=0.223N	P=0.506	P=0.231N	P=0.375N
POLY 1.5	P=0.221N	P=0.511	P=0.238N	P=0.369N
POLY 6	P=0.229N	P=0.498	P=0.229N	P=0.388N
COCH-ARM / FISHERS	P=0.221N	P=0.517	P=0.251N	P=0.365N
MAX-ISO-POLY-3	P=0.270N	P=0.393	P=0.150N	P=0.266N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney Mineralization				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.71	0/43.58	0/45.24	2/43.71
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	598
STATISTICAL TESTS				
POLY 3	P=0.046*	(e)	(e)	P=0.242
POLY 1.5	P=0.046*	(e)	(e)	P=0.242
POLY 6	P=0.046*	(e)	(e)	P=0.242
COCH-ARM / FISHERS	P=0.047*	(e)	(e)	P=0.253
MAX-ISO-POLY-3	P=0.035*	(e)	(e)	P=0.080

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney				
Nephropathy				
LESION RATES				
OVERALL (a)	47/49 (96%)	50/50 (100%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	47/48.18	50/50.00	48/49.90	50/50.00
POLY-3 PERCENT (g)	97.5%	100%	96.2%	100%
TERMINAL (d)	30/30 (100%)	32/32 (100%)	32/33 (97%)	30/30 (100%)
FIRST INCIDENCE	488	474	526	474
STATISTICAL TESTS				
POLY 3	P=0.397	P=0.416	P=0.582N	P=0.416
POLY 1.5	P=0.333	P=0.327	P=0.627N	P=0.327
POLY 6	P=0.459	P=0.517	P=0.549N	P=0.517
COCH-ARM / FISHERS	P=0.243	P=0.242	P=0.684	P=0.242
MAX-ISO-POLY-3	P=0.246	P=0.109	P=0.345N	P=0.109

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney: Papilla Hemorrhage				
LESION RATES				
OVERALL (a)	1/49 (2%)	0/50 (0%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	1/42.71	0/43.58	5/46.06	1/43.11
POLY-3 PERCENT (g)	2.3%	0%	10.9%	2.3%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	3/33 (9%)	1/30 (3%)
FIRST INCIDENCE	727 (T)	---	526	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.417	P=0.496N	P=0.119	P=0.759N
POLY 1.5	P=0.423	P=0.496N	P=0.115	P=0.757N
POLY 6	P=0.407	P=0.496N	P=0.124	P=0.760
COCH-ARM / FISHERS	P=0.429	P=0.495N	P=0.107	P=0.747N
MAX-ISO-POLY-3	P=0.147	P=0.157N	P=0.060	P=0.496N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Kidney: Pelvis Inflammation Chronic				
LESION RATES				
OVERALL (a)	8/49 (16%)	9/50 (18%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.58	9/43.97	8/47.20	10/45.10
POLY-3 PERCENT (g)	18.4%	20.5%	17%	22.2%
TERMINAL (d)	6/30 (20%)	7/32 (22%)	3/33 (9%)	5/30 (17%)
FIRST INCIDENCE	579	645	526	515
STATISTICAL TESTS				
POLY 3	P=0.401	P=0.508	P=0.539N	P=0.428
POLY 1.5	P=0.393	P=0.513	P=0.559N	P=0.424
POLY 6	P=0.409	P=0.502	P=0.520N	P=0.431
COCH-ARM / FISHERS	P=0.379	P=0.518	P=0.590N	P=0.416
MAX-ISO-POLY-3	P=0.522	P=0.399	P=0.431N	P=0.329

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	3/43.58	1/45.24	0/43.11
POLY-3 PERCENT (g)	0%	6.9%	2.2%	0%
TERMINAL (d)	0/30 (0%)	3/32 (9%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	727 (T)	727 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.368N	P=0.118	P=0.507	(e)
POLY 1.5	P=0.366N	P=0.119	P=0.505	(e)
POLY 6	P=0.373N	P=0.117	P=0.509	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.230N	P=0.038*	P=0.167	(e)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	37/50 (74%)	41/50 (82%)	46/50 (92%)	45/50 (90%)
POLY-3 RATE (b)	37/46.73	41/48.07	46/49.11	45/47.84
POLY-3 PERCENT (g)	79.2%	85.3%	93.7%	94.1%
TERMINAL (d)	27/30 (90%)	31/32 (97%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	488	488	527	474
STATISTICAL TESTS				
POLY 3	P=0.008**	P=0.294	P=0.026*	P=0.020*
POLY 1.5	P=0.011*	P=0.268	P=0.020*	P=0.024*
POLY 6	P=0.006**	P=0.323	P=0.039*	P=0.016*
COCH-ARM / FISHERS	P=0.016*	P=0.235	P=0.016*	P=0.033*
MAX-ISO-POLY-3	P=0.012*	P=0.208	P=0.013*	P=0.009**

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	10/50 (20%)	12/50 (24%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	10/43.90	12/43.97	12/45.79	10/43.11
POLY-3 PERCENT (g)	22.8%	27.3%	26.2%	23.2%
TERMINAL (d)	8/30 (27%)	9/32 (28%)	10/33 (30%)	10/30 (33%)
FIRST INCIDENCE	682	670	642	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.516N	P=0.404	P=0.448	P=0.583
POLY 1.5	P=0.507N	P=0.405	P=0.432	P=0.591
POLY 6	P=0.536N	P=0.404	P=0.461	P=0.565
COCH-ARM / FISHERS	P=0.500N	P=0.405	P=0.405	P=0.598N
MAX-ISO-POLY-3	P=0.599	P=0.313	P=0.355	P=0.481

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	0/43.58	0/45.24	0/43.11
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	12/50 (24%)	14/50 (28%)	12/50 (24%)	13/50 (26%)
POLY-3 RATE (b)	12/44.19	14/43.67	12/45.39	13/43.11
POLY-3 PERCENT (g)	27.2%	32.1%	26.4%	30.2%
TERMINAL (d)	9/30 (30%)	13/32 (41%)	11/33 (33%)	13/30 (43%)
FIRST INCIDENCE	644	706	690	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.488	P=0.393	P=0.564N	P=0.471
POLY 1.5	P=0.501	P=0.402	P=0.573N	P=0.486
POLY 6	P=0.462	P=0.378	P=0.564N	P=0.442
COCH-ARM / FISHERS	P=0.511	P=0.410	P=0.592N	P=0.500
MAX-ISO-POLY-3	P=0.595	P=0.307	P=0.469N	P=0.378

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	8/50 (16%)	7/50 (14%)	8/50 (16%)	11/50 (22%)
POLY-3 RATE (b)	8/44.90	7/45.14	8/46.35	11/44.89
POLY-3 PERCENT (g)	17.8%	15.5%	17.3%	24.5%
TERMINAL (d)	4/30 (13%)	3/32 (9%)	3/33 (9%)	4/30 (13%)
FIRST INCIDENCE	488	474	582	551
STATISTICAL TESTS				
POLY 3	P=0.203	P=0.496N	P=0.581N	P=0.302
POLY 1.5	P=0.204	P=0.497N	P=0.591N	P=0.304
POLY 6	P=0.202	P=0.494N	P=0.572N	P=0.301
COCH-ARM / FISHERS	P=0.204	P=0.500N	P=0.607N	P=0.306
MAX-ISO-POLY-3	P=0.277	P=0.384N	P=0.471N	P=0.219

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Fatty Change Focal				
LESION RATES				
OVERALL (a)	2/50 (4%)	13/50 (26%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	2/44.08	13/44.93	7/45.64	8/45.03
POLY-3 PERCENT (g)	4.5%	28.9%	15.3%	17.8%
TERMINAL (d)	0/30 (0%)	11/32 (34%)	5/33 (15%)	3/30 (10%)
FIRST INCIDENCE	644	474	666	474
STATISTICAL TESTS				
POLY 3	P=0.244	P=0.002**	P=0.087	P=0.048*
POLY 1.5	P=0.238	P=0.002**	P=0.084	P=0.047*
POLY 6	P=0.247	P=0.002**	P=0.088	P=0.048*
COCH-ARM / FISHERS	P=0.231	P=0.002**	P=0.080	P=0.046*
MAX-ISO-POLY-3	P=0.030*	P<0.001**	P=0.046*	P=0.024*

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	2/50 (4%)	7/50 (14%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/43.67	7/44.58	3/45.24	1/43.11
POLY-3 PERCENT (g)	4.6%	15.7%	6.6%	2.3%
TERMINAL (d)	2/30 (7%)	5/32 (16%)	3/33 (9%)	1/30 (3%)
FIRST INCIDENCE	727 (T)	531	727 (T)	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.179N	P=0.083	P=0.516	P=0.505N
POLY 1.5	P=0.177N	P=0.082	P=0.510	P=0.502N
POLY 6	P=0.183N	P=0.085	P=0.520	P=0.509N
COCH-ARM / FISHERS	P=0.178N	P=0.080	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.128N	P=0.042*	P=0.340	P=0.285N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/44.28	4/45.14	3/45.24	0/43.11
POLY-3 PERCENT (g)	4.5%	8.9%	6.6%	0%
TERMINAL (d)	1/30 (3%)	1/32 (3%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	531	474	727 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.144N	P=0.346	P=0.510	P=0.243N
POLY 1.5	P=0.140N	P=0.343	P=0.507	P=0.240N
POLY 6	P=0.151N	P=0.349	P=0.511	P=0.247N
COCH-ARM / FISHERS	P=0.137N	P=0.339	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.127N	P=0.209	P=0.334	P=0.081N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/43.67	2/43.58	1/45.24	3/43.11
POLY-3 PERCENT (g)	2.3%	4.6%	2.2%	7%
TERMINAL (d)	1/30 (3%)	2/32 (6%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.235	P=0.499	P=0.753N	P=0.300
POLY 1.5	P=0.237	P=0.500	P=0.755N	P=0.303
POLY 6	P=0.232	P=0.498	P=0.751N	P=0.295
COCH-ARM / FISHERS	P=0.237	P=0.500	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.220	P=0.280	P=0.489N	P=0.152

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Necrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.43	0/43.58	2/45.46	0/43.11
POLY-3 PERCENT (g)	2.3%	0%	4.4%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	454	---	676	---
STATISTICAL TESTS				
POLY 3	P=0.467N	P=0.504N	P=0.508	P=0.506N
POLY 1.5	P=0.464N	P=0.502N	P=0.505	P=0.503N
POLY 6	P=0.472N	P=0.505N	P=0.511	P=0.510N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.343N	P=0.163N	P=0.289	P=0.166N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver				
Vacuolization Cytoplasmic				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	4/43.67	1/44.20	2/45.41	0/43.11
POLY-3 PERCENT (g)	9.2%	2.3%	4.4%	0%
TERMINAL (d)	4/30 (13%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	526	683	---
STATISTICAL TESTS				
POLY 3	P=0.052N	P=0.174N	P=0.319N	P=0.061N
POLY 1.5	P=0.052N	P=0.176N	P=0.326N	P=0.061N
POLY 6	P=0.053N	P=0.172N	P=0.313N	P=0.063N
COCH-ARM / FISHERS	P=0.052N	P=0.181N	P=0.339N	P=0.059N
MAX-ISO-POLY-3	P=0.023N*	P=0.082N	P=0.191N	P=0.020N*

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	10/50 (20%)	2/50 (4%)	9/50 (18%)	7/50 (14%)
POLY-3 RATE (b)	10/43.92	2/43.97	9/45.89	7/43.27
POLY-3 PERCENT (g)	22.8%	4.6%	19.6%	16.2%
TERMINAL (d)	8/30 (27%)	1/32 (3%)	5/33 (15%)	5/30 (17%)
FIRST INCIDENCE	691	616	666	695
STATISTICAL TESTS				
POLY 3	P=0.509N	P=0.013N*	P=0.457N	P=0.306N
POLY 1.5	P=0.504N	P=0.013N*	P=0.473N	P=0.301N
POLY 6	P=0.518N	P=0.012N*	P=0.441N	P=0.316N
COCH-ARM / FISHERS	P=0.500N	P=0.014N*	P=0.500N	P=0.298N
MAX-ISO-POLY-3	P=0.190N	P=0.005N**	P=0.359N	P=0.220N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Liver: Serosa Fibrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	0/43.58	1/45.24	2/43.14
POLY-3 PERCENT (g)	0%	0%	2.2%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	---	727 (T)	719
STATISTICAL TESTS				
POLY 3	P=0.069	(e)	P=0.507	P=0.234
POLY 1.5	P=0.069	(e)	P=0.505	P=0.236
POLY 6	P=0.067	(e)	P=0.509	P=0.231
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.077	(e)	P=0.167	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	14/50 (28%)	14/50 (28%)	11/50 (22%)
POLY-3 RATE (b)	7/44.04	14/44.58	14/46.03	11/43.11
POLY-3 PERCENT (g)	15.9%	31.4%	30.4%	25.5%
TERMINAL (d)	6/30 (20%)	12/32 (38%)	10/33 (30%)	11/30 (37%)
FIRST INCIDENCE	625	488	666	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.275	P=0.068	P=0.081	P=0.198
POLY 1.5	P=0.289	P=0.069	P=0.077	P=0.208
POLY 6	P=0.251	P=0.067	P=0.086	P=0.182
COCH-ARM / FISHERS	P=0.305	P=0.070	P=0.070	P=0.218
MAX-ISO-POLY-3	P=0.127	P=0.041*	P=0.053	P=0.134

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.67	3/43.80	1/45.24	1/43.14
POLY-3 PERCENT (g)	0%	6.9%	2.2%	2.3%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	706	727 (T)	719
STATISTICAL TESTS				
POLY 3	P=0.586	P=0.119	P=0.507	P=0.498
POLY 1.5	P=0.589	P=0.119	P=0.505	P=0.499
POLY 6	P=0.581	P=0.119	P=0.509	P=0.495
COCH-ARM / FISHERS	P=0.591	P=0.121	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.237	P=0.038*	P=0.167	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Bronchiole Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	2/45.24	0/43.11
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	---	---	727 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.586	(e)	P=0.245	(e)
POLY 1.5	P=0.591	(e)	P=0.242	(e)
POLY 6	P=0.577	(e)	P=0.247	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.261	(e)	P=0.083	(e)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lung: Serosa Fibrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	1/43.97	0/45.24	2/43.27
POLY-3 PERCENT (g)	0%	2.3%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	616	---	684
STATISTICAL TESTS				
POLY 3	P=0.139	P=0.501	(e)	P=0.235
POLY 1.5	P=0.140	P=0.501	(e)	P=0.236
POLY 6	P=0.138	P=0.502	(e)	P=0.233
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.077	P=0.160	(e)	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lymph Node, Mesenteric Ectasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	1/45.24	0/43.11
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	727 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Lymph Node: Mediastinal Ectasia				
LESION RATES				
OVERALL (a)	0/5 (0%)	1/7 (14%)	0/5 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/4.80	1/4.99	0/4.86	0/1.56
POLY-3 PERCENT (g)	0%	20.1%	0%	0%
TERMINAL (d)	0/3 (0%)	1/2 (50%)	0/4 (0%)	0/1 (0%)
FIRST INCIDENCE	---	727 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	12/50 (24%)	8/50 (16%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	12/45.63	8/45.25	3/45.97	4/44.53
POLY-3 PERCENT (g)	26.3%	17.7%	6.5%	9%
TERMINAL (d)	6/30 (20%)	3/32 (9%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	454	474	526	474
STATISTICAL TESTS				
POLY 3	P=0.011N*	P=0.230N	P=0.010N**	P=0.028N*
POLY 1.5	P=0.011N*	P=0.229N	P=0.010N**	P=0.027N*
POLY 6	P=0.011N*	P=0.231N	P=0.009N**	P=0.029N*
COCH-ARM / FISHERS	P=0.011N*	P=0.227N	P=0.011N*	P=0.027N*
MAX-ISO-POLY-3	P=0.010N**	P=0.161N	P=0.004N**	P=0.015N*

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	4/44.40	4/44.42	6/45.38	4/43.87
POLY-3 PERCENT (g)	9%	9%	13.2%	9.1%
TERMINAL (d)	1/30 (3%)	2/32 (6%)	5/33 (15%)	1/30 (3%)
FIRST INCIDENCE	625	526	691	579
STATISTICAL TESTS				
POLY 3	P=0.524	P=0.643N	P=0.383	P=0.637
POLY 1.5	P=0.529	P=0.642N	P=0.380	P=0.640
POLY 6	P=0.515	P=0.642	P=0.381	P=0.630
COCH-ARM / FISHERS	P=0.533	P=0.643N	P=0.370	P=0.643N
MAX-ISO-POLY-3	P=0.579	P=0.499N	P=0.266	P=0.492

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	4/4 (100%)	6/7 (86%)	6/7 (86%)	7/8 (88%)
POLY-3 RATE (b)	4/4.00	6/6.30	6/6.77	7/8.00
POLY-3 PERCENT (g)	100%	95.2%	88.6%	87.5%
TERMINAL (d)	2/2 (100%)	2/2 (100%)	4/4 (100%)	5/6 (83%)
FIRST INCIDENCE	488	614	527	638
STATISTICAL TESTS				
POLY 3	P=0.390N	P=0.992N	P=0.710N	P=0.635N
POLY 1.5	P=0.443N	P=0.849N	P=0.658N	P=0.635N
POLY 6	P=0.334N	P=1.000N	P=0.820N	P=0.635N
COCH-ARM / FISHERS	P=0.519N	P=0.636N	P=0.636N	P=0.667N
MAX-ISO-POLY-3	P=0.404N	P=0.248N	P=0.254N	P=0.275N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose				
Foreign Body				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/43.85	3/43.88	3/45.47	2/43.55
POLY-3 PERCENT (g)	4.6%	6.8%	6.6%	4.6%
TERMINAL (d)	1/30 (3%)	2/32 (6%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	682	645	666	598
STATISTICAL TESTS				
POLY 3	P=0.545N	P=0.500	P=0.517	P=0.692
POLY 1.5	P=0.543N	P=0.500	P=0.511	P=0.693
POLY 6	P=0.549N	P=0.500	P=0.521	P=0.689
COCH-ARM / FISHERS	P=0.544N	P=0.500	P=0.500	P=0.691N
MAX-ISO-POLY-3	P=0.603	P=0.324	P=0.341	P=0.496

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose Inflammation				
LESION RATES				
OVERALL (a)	3/50 (6%)	5/50 (10%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/44.28	5/44.58	4/45.90	3/43.55
POLY-3 PERCENT (g)	6.8%	11.2%	8.7%	6.9%
TERMINAL (d)	2/30 (7%)	3/32 (9%)	2/33 (6%)	2/30 (7%)
FIRST INCIDENCE	531	488	603	598
STATISTICAL TESTS				
POLY 3	P=0.490N	P=0.360	P=0.520	P=0.655
POLY 1.5	P=0.486N	P=0.359	P=0.512	P=0.658
POLY 6	P=0.498N	P=0.361	P=0.526	P=0.649
COCH-ARM / FISHERS	P=0.482N	P=0.357	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.566	P=0.234	P=0.367	P=0.491

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Nasolacrimal Duct Inflammation				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.67	0/43.58	0/45.24	0/43.11
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	2/30 (7%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.111N	P=0.237N	P=0.229N	P=0.240N
POLY 1.5	P=0.112N	P=0.237N	P=0.232N	P=0.238N
POLY 6	P=0.110N	P=0.238N	P=0.227N	P=0.243N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.076N	P=0.076N	P=0.079N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/43.85	1/43.88	1/45.24	2/43.55
POLY-3 PERCENT (g)	6.8%	2.3%	2.2%	4.6%
TERMINAL (d)	2/30 (7%)	0/32 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	682	645	727 (T)	598
STATISTICAL TESTS				
POLY 3	P=0.473N	P=0.305N	P=0.294N	P=0.503N
POLY 1.5	P=0.473N	P=0.305N	P=0.298N	P=0.501N
POLY 6	P=0.475N	P=0.304N	P=0.292N	P=0.508N
COCH-ARM / FISHERS	P=0.474N	P=0.309N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.294N	P=0.153N	P=0.149N	P=0.327N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Respiratory Epithelium Ulcer				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/45.24	0/43.11
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Nose: Turbinate Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/45.24	2/43.75
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	515
STATISTICAL TESTS				
POLY 3	P=0.046*	(e)	(e)	P=0.237
POLY 1.5	P=0.046*	(e)	(e)	P=0.238
POLY 6	P=0.045*	(e)	(e)	P=0.236
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.033*	(e)	(e)	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Ovary Cyst				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	4/43.67	3/44.14	0/45.24	3/43.37
POLY-3 PERCENT (g)	9.2%	6.8%	0%	6.9%
TERMINAL (d)	4/30 (13%)	1/32 (3%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	727 (T)	588	---	656
STATISTICAL TESTS				
POLY 3	P=0.369N	P=0.494N	P=0.056N	P=0.504N
POLY 1.5	P=0.369N	P=0.497N	P=0.057N	P=0.501N
POLY 6	P=0.370N	P=0.491N	P=0.054N	P=0.508N
COCH-ARM / FISHERS	P=0.371N	P=0.500N	P=0.059N	P=0.500N
MAX-ISO-POLY-3	P=0.198N	P=0.342N	P=0.019N*	P=0.350N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Basophilic Focus				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	0/43.58	2/44.73	0/43.11
POLY-3 PERCENT (g)	2.3%	0%	4.5%	0%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	---	727 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.465N	P=0.500N	P=0.508	P=0.503N
POLY 1.5	P=0.463N	P=0.500N	P=0.503	P=0.501N
POLY 6	P=0.469N	P=0.501N	P=0.513	P=0.505N
COCH-ARM / FISHERS	P=0.462N	P=0.500N	P=0.492	P=0.500N
MAX-ISO-POLY-3	P=0.338N	P=0.159N	P=0.291	P=0.162N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	2/43.58	0/44.73	0/43.11
POLY-3 PERCENT (g)	2.3%	4.6%	0%	0%
TERMINAL (d)	1/30 (3%)	2/32 (6%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	727 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.188N	P=0.499	P=0.495N	P=0.503N
POLY 1.5	P=0.188N	P=0.500	P=0.498N	P=0.501N
POLY 6	P=0.188N	P=0.498	P=0.493N	P=0.505N
COCH-ARM / FISHERS	P=0.189N	P=0.500	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.280	P=0.160N	P=0.162N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/44.73	0/43.11
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas				
Infiltration Cellular				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.04	0/43.58	0/44.73	1/43.11
POLY-3 PERCENT (g)	4.5%	0%	0%	2.3%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	625	---	---	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.456N	P=0.239N	P=0.234N	P=0.507N
POLY 1.5	P=0.458N	P=0.238N	P=0.236N	P=0.504N
POLY 6	P=0.453N	P=0.241N	P=0.232N	P=0.514N
COCH-ARM / FISHERS	P=0.462N	P=0.247N	P=0.253N	P=0.500N
MAX-ISO-POLY-3	P=0.143N	P=0.078N	P=0.077N	P=0.289N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/44.73	0/43.11
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pituitary Gland Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/42.63	1/44.64	0/43.11
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	666	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	19/50 (38%)	19/49 (39%)	20/49 (41%)	20/50 (40%)
POLY-3 RATE (b)	19/45.33	19/45.34	20/47.41	20/45.25
POLY-3 PERCENT (g)	41.9%	41.9%	42.2%	44.2%
TERMINAL (d)	14/30 (47%)	12/32 (38%)	10/33 (30%)	14/30 (47%)
FIRST INCIDENCE	514	488	526	540
STATISTICAL TESTS				
POLY 3	P=0.445	P=0.585N	P=0.573	P=0.497
POLY 1.5	P=0.448	P=0.571	P=0.531	P=0.500
POLY 6	P=0.437	P=0.569N	P=0.547N	P=0.490
COCH-ARM / FISHERS	P=0.449	P=0.551	P=0.468	P=0.500
MAX-ISO-POLY-3	P=0.640	P=0.499N	P=0.489	P=0.410

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Skin				
Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	1/45.24	0/43.11
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	727 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Skin				
Ulcer				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.67	2/44.19	2/46.05	1/43.11
POLY-3 PERCENT (g)	0%	4.5%	4.3%	2.3%
TERMINAL (d)	0/30 (0%)	1/32 (3%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	531	579	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.462	P=0.240	P=0.249	P=0.497
POLY 1.5	P=0.466	P=0.239	P=0.245	P=0.499
POLY 6	P=0.454	P=0.240	P=0.254	P=0.495
COCH-ARM / FISHERS	P=0.469	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.243	P=0.078	P=0.087	P=0.158

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Spleen Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	0/43.58	1/45.44	2/43.71
POLY-3 PERCENT (g)	0%	0%	2.2%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	677	598
STATISTICAL TESTS				
POLY 3	P=0.070	(e)	P=0.508	P=0.237
POLY 1.5	P=0.070	(e)	P=0.505	P=0.238
POLY 6	P=0.070	(e)	P=0.510	P=0.236
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.078	(e)	P=0.168	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Spleen				
Hyperplasia Lymphoid				
LESION RATES				
OVERALL (a)	4/50 (8%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/43.84	2/43.58	1/45.24	0/43.11
POLY-3 PERCENT (g)	9.1%	4.6%	2.2%	0%
TERMINAL (d)	3/30 (10%)	2/32 (6%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	683	727 (T)	727 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.029N*	P=0.340N	P=0.169N	P=0.062N
POLY 1.5	P=0.029N*	P=0.338N	P=0.172N	P=0.061N
POLY 6	P=0.029N*	P=0.342N	P=0.167N	P=0.064N
COCH-ARM / FISHERS	P=0.030N*	P=0.339N	P=0.181N	P=0.059N
MAX-ISO-POLY-3	P=0.023N*	P=0.203N	P=0.081N	P=0.021N*

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Fibrosis				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	4/43.99	1/43.89	4/45.53	1/43.22
POLY-3 PERCENT (g)	9.1%	2.3%	8.8%	2.3%
TERMINAL (d)	2/30 (7%)	0/32 (0%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	683	642	690	700
STATISTICAL TESTS				
POLY 3	P=0.226N	P=0.179N	P=0.624N	P=0.183N
POLY 1.5	P=0.223N	P=0.179N	P=0.631N	P=0.181N
POLY 6	P=0.231N	P=0.179N	P=0.621N	P=0.188N
COCH-ARM / FISHERS	P=0.221N	P=0.181N	P=0.643N	P=0.181N
MAX-ISO-POLY-3	P=0.139N	P=0.084N	P=0.479N	P=0.088N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	5/50 (10%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	7/43.99	5/44.98	6/45.38	7/44.08
POLY-3 PERCENT (g)	15.9%	11.1%	13.2%	15.9%
TERMINAL (d)	5/30 (17%)	2/32 (6%)	5/33 (15%)	2/30 (7%)
FIRST INCIDENCE	683	488	691	598
STATISTICAL TESTS				
POLY 3	P=0.483	P=0.363N	P=0.476N	P=0.612N
POLY 1.5	P=0.485	P=0.369N	P=0.484N	P=0.612N
POLY 6	P=0.479	P=0.356N	P=0.472N	P=0.614N
COCH-ARM / FISHERS	P=0.486	P=0.380N	P=0.500N	P=0.613N
MAX-ISO-POLY-3	P=0.579N	P=0.257N	P=0.361N	P=0.497N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	0/43.58	1/45.38	0/43.11
POLY-3 PERCENT (g)	2.3%	0%	2.2%	0%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	---	691	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/43.67	2/43.94	3/45.97	0/43.11
POLY-3 PERCENT (g)	2.3%	4.6%	6.5%	0%
TERMINAL (d)	1/30 (3%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	727 (T)	642	582	---
STATISTICAL TESTS				
POLY 3	P=0.343N	P=0.502	P=0.324	P=0.503N
POLY 1.5	P=0.340N	P=0.501	P=0.317	P=0.501N
POLY 6	P=0.349N	P=0.504	P=0.331	P=0.505N
COCH-ARM / FISHERS	P=0.337N	P=0.500	P=0.309	P=0.500N
MAX-ISO-POLY-3	P=0.205N	P=0.283	P=0.173	P=0.162N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Erosion				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/44.73	0/43.11
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.78	1/43.58	1/44.87	1/43.11
POLY-3 PERCENT (g)	2.3%	2.3%	2.2%	2.3%
TERMINAL (d)	0/30 (0%)	1/32 (3%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	700	727 (T)	691	727 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/44.73	2/43.71
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	598
STATISTICAL TESTS				
POLY 3	P=0.046*	(e)	(e)	P=0.237
POLY 1.5	P=0.046*	(e)	(e)	P=0.238
POLY 6	P=0.046*	(e)	(e)	P=0.236
COCH-ARM / FISHERS	P=0.047*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.033*	(e)	(e)	P=0.076

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Stomach, Glandular Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.78	0/43.58	0/44.73	0/43.11
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	701	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	8/50 (16%)	6/48 (13%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	8/44.05	6/42.75	5/45.55	7/43.50
POLY-3 PERCENT (g)	18.2%	14%	11%	16.1%
TERMINAL (d)	7/30 (23%)	5/32 (16%)	4/33 (12%)	5/30 (17%)
FIRST INCIDENCE	621	645	642	656
STATISTICAL TESTS				
POLY 3	P=0.468N	P=0.409N	P=0.253N	P=0.511N
POLY 1.5	P=0.464N	P=0.413N	P=0.261N	P=0.505N
POLY 6	P=0.476N	P=0.403N	P=0.247N	P=0.520N
COCH-ARM / FISHERS	P=0.461N	P=0.419N	P=0.277N	P=0.500N
MAX-ISO-POLY-3	P=0.436N	P=0.302N	P=0.172N	P=0.397N

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
<hr/>				
Trachea: Glands				
Cyst				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.67	0/43.58	0/45.24	0/43.11
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Uterus: Cervix Cyst				
LESION RATES				
OVERALL (a)	4/50 (8%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/43.92	2/43.58	3/45.24	3/43.11
POLY-3 PERCENT (g)	9.1%	4.6%	6.6%	7%
TERMINAL (d)	2/30 (7%)	2/32 (6%)	3/33 (9%)	3/30 (10%)
FIRST INCIDENCE	691	727 (T)	727 (T)	727 (T)
STATISTICAL TESTS				
POLY 3	P=0.504N	P=0.340N	P=0.484N	P=0.510N
POLY 1.5	P=0.501N	P=0.339N	P=0.489N	P=0.505N
POLY 6	P=0.510N	P=0.344N	P=0.482N	P=0.521N
COCH-ARM / FISHERS	P=0.500N	P=0.339N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.466N	P=0.204N	P=0.335N	P=0.357N

TDMS No. 20009 - 03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 beta-Picoline
 CAS Number: 108-99-6

Date Report Requested: 05/27/2011
 Time Report Requested: 10:09:56
 First Dose M/F: 11/18/04 / 11/19/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
Uterus: Endometrium Hyperplasia Cystic				
LESION RATES				
OVERALL (a)	1/50 (2%)	8/50 (16%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	1/43.67	8/44.51	7/45.39	8/44.42
POLY-3 PERCENT (g)	2.3%	18%	15.4%	18%
TERMINAL (d)	1/30 (3%)	6/32 (19%)	6/33 (18%)	4/30 (13%)
FIRST INCIDENCE	727 (T)	526	690	527
STATISTICAL TESTS				
POLY 3	P=0.054	P=0.017*	P=0.034*	P=0.016*
POLY 1.5	P=0.053	P=0.016*	P=0.033*	P=0.016*
POLY 6	P=0.054	P=0.017*	P=0.035*	P=0.016*
COCH-ARM / FISHERS	P=0.053	P=0.015*	P=0.030*	P=0.015*
MAX-ISO-POLY-3	P=0.023*	P=0.007**	P=0.015*	P=0.007**

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
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First Dose M/F: 11/18/04 / 11/19/04
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 ***