

**TDMS No.** 95011-07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.  
F1\_R2

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:28:38  
**First Dose M/F:** 03/06/02 / 03/07/02  
**Lab:** BAT

**C Number:** C95011B  
**Lock Date:** 11/09/2004  
**Cage Range:** 1 - 9999  
**Date Range:** 1-JAN-1940 to 17-SEP-2040  
**Reasons For Removal:** ALL  
**Removal Date Range:** JAN /1 /1940 - SEP /17 /2040  
**Treatment Groups:** Include 1 0 MG/KG  
Include 4 188 MG/KG  
Include 7 750 MG/KG

Include 2 0 MG/KG  
Include 5 375 MG/KG  
Include 8 750 MG/KG

Include 3 188 MG/KG  
Include 6 375 MG/KG

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF 5-(HYDROXYMETHYL)-2-FURFURAL

### MALE RATS

#### Organ

Adrenal Cortex

Adrenal Medulla

Brain

Epididymis

Heart

Heart: Atrium

Kidney

Liver

Liver: Bile Duct

Liver: Hepatocyte

Lung

Lung: Alveolus

Lung: Perivascular

Mammary Gland

Mammary Gland: Duct

Mesentery: Fat

Nose

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

#### Morphology

Hematopoietic Cell Proliferation

Hyperplasia

Vacuolization Cytoplasmic

Fibrosis

Hyperplasia

Hemorrhage

Granuloma Sperm

Cardiomyopathy

Fibrosis

Mineralization

Nephropathy

Clear Cell Focus

Inflammation Chronic

Hyperplasia

Degeneration Cystic

Fatty Change

Necrosis

Inflammation Chronic

Infiltration Cellular Histiocyte

Infiltration Cellular Lymphoid

Cyst

Dilatation

Fibrosis

Inflammation Chronic

Necrosis

Inflammation

Accumulation, Hyaline Droplet

Degeneration

Metaplasia Respiratory

Accumulation, Hyaline Droplet

Hyperplasia

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF 5-(HYDROXYMETHYL)-2-FURFURAL

Pituitary Gland: Pars Distalis  
  
Pituitary Gland: Pars Intermedia  
Preputial Gland  
  
Prostate  
Spleen  
Stomach, Forestomach  
Stomach, Forestomach: Epithelium  
Testes  
Testes: Interstitial Cell

Metaplasia  
Cyst  
Pigmentation  
Pigmentation  
Hyperplasia  
Inflammation Chronic  
Inflammation Chronic  
Hematopoietic Cell Proliferation  
Inflammation Chronic  
Ulcer  
Mineralization  
Hyperplasia

### **FEMALE RATS**

#### **Organ**

Adrenal Cortex  
  
Adrenal Medulla  
Clitoral Gland  
Intestine Large, Colon  
Kidney  
  
Liver: Bile Duct  
Liver: Hepatocyte  
  
Lung  
Lung: Alveolus  
Lung: Bronchus  
  
Mesentery: Fat  
  
Nose

#### **Morphology**

Hematopoietic Cell Proliferation  
Hyperplasia  
Infiltration Cellular Lymphoid  
Inflammation Chronic  
Parasite Metazoan  
Mineralization  
Nephropathy  
Hyperplasia  
Fatty Change  
Necrosis  
Vacuolization Cytoplasmic  
Fibrosis  
Infiltration Cellular Histiocyte  
Hyperplasia  
Metaplasia  
Fibrosis  
Pigmentation  
Foreign Body  
Inflammation

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF 5-(HYDROXYMETHYL)-2-FURFURAL**

Nose: Nasolacrimal Duct  
Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Ovary  
Pancreas: Duct  
Pituitary Gland: Pars Distalis  
Pituitary Gland: Pars Intermedia

Inflammation Chronic  
Accumulation, Hyaline Droplet  
Degeneration  
Metaplasia  
Metaplasia Respiratory  
Accumulation, Hyaline Droplet  
Metaplasia  
Cyst  
Cyst  
Cyst  
Cyst

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Accessory Adrenal Cortical Nodule**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/40.83	0/45.16	1/43.21	1/44.87
POLY-3 PERCENT (g)	0%	0%	2.3%	2.2%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	1/31 (3%)	1/35 (3%)
FIRST INCIDENCE	---	---	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.292	(e)	P=0.568	P=0.593
POLY 3	P=0.253	(e)	P=0.511	P=0.519
POLY 1.5	P=0.244	(e)	P=0.505	P=0.509
POLY 6	P=0.268	(e)	P=0.522	P=0.536
LOGISTIC REGRESSION	(e)	(e)	P=0.568	P=0.593
COCH-ARM / FISHERS	P=0.236	(e)	P=0.500	P=0.500
ORDER RESTRICTED	P=0.263	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.285	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hematopoietic Cell Proliferation**

**LESION RATES**

OVERALL (a)	9/50 (18%)	6/50 (12%)	2/50 (4%)	9/50 (18%)
POLY-3 RATE (b)	9/42.02	6/45.16	2/43.21	9/45.08
POLY-3 PERCENT (g)	21.4%	13.3%	4.6%	20%
TERMINAL (d)	5/22 (23%)	6/34 (18%)	2/31 (7%)	8/35 (23%)
FIRST INCIDENCE	532	727 (T)	727 (T)	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.343N	P=0.088N	P=0.010N**	P=0.254N
POLY 3	P=0.550	P=0.235N	P=0.021N*	P=0.539N
POLY 1.5	P=0.537	P=0.261N	P=0.024N*	P=0.575N
POLY 6	P=0.551N	P=0.195N	P=0.017N*	P=0.475N
LOGISTIC REGRESSION	P=0.489N	P=0.202N	P=0.022N*	P=0.492N
COCH-ARM / FISHERS	P=0.528	P=0.288N	P=0.026N*	P=0.602N
ORDER RESTRICTED	P=0.184N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.203N	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	20/50 (40%)	7/50 (14%)	11/50 (22%)	18/50 (36%)
POLY-3 RATE (b)	20/42.78	7/45.16	11/43.66	18/45.18
POLY-3 PERCENT (g)	46.8%	15.5%	25.2%	39.8%
TERMINAL (d)	11/22 (50%)	7/34 (21%)	9/31 (29%)	16/35 (46%)
FIRST INCIDENCE	629	727 (T)	623	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.286N	P<0.001N**	P=0.006N**	P=0.040N*
POLY 3	P=0.435	P<0.001N**	P=0.027N*	P=0.328N
POLY 1.5	P=0.420	P<0.001N**	P=0.033N*	P=0.378N
POLY 6	P=0.461	P<0.001N**	P=0.019N*	P=0.254N
LOGISTIC REGRESSION	P=0.488N	P<0.001N**	P=0.015N*	P=0.163N
COCH-ARM / FISHERS	P=0.416	P=0.003N**	P=0.041N*	P=0.418N
ORDER RESTRICTED	P=0.026N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033N*	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hypertrophy**

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/41.02	2/45.16	4/43.21	2/44.87
POLY-3 PERCENT (g)	2.4%	4.4%	9.3%	4.5%
TERMINAL (d)	0/22 (0%)	2/34 (6%)	4/31 (13%)	2/35 (6%)
FIRST INCIDENCE	678	727 (T)	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.531	P=0.635	P=0.282	P=0.639
POLY 3	P=0.430	P=0.533	P=0.194	P=0.531
POLY 1.5	P=0.406	P=0.517	P=0.185	P=0.515
POLY 6	P=0.468	P=0.560	P=0.209	P=0.559
LOGISTIC REGRESSION	P=0.490	P=0.568	P=0.236	P=0.566
COCH-ARM / FISHERS	P=0.387	P=0.500	P=0.181	P=0.500
ORDER RESTRICTED	P=0.290	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.312	(e)	(e)	(e)



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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Vacuolization Cytoplasmic**

**LESION RATES**

OVERALL (a)	36/50 (72%)	25/50 (50%)	25/50 (50%)	28/50 (56%)
POLY-3 RATE (b)	36/48.24	25/48.96	25/46.82	28/46.70
POLY-3 PERCENT (g)	74.6%	51.1%	53.4%	60%
TERMINAL (d)	12/22 (55%)	13/34 (38%)	15/31 (48%)	20/35 (57%)
FIRST INCIDENCE	517	366	483	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.023N*	P=0.003N**	P=0.008N**	P=0.004N**
POLY 3	P=0.178N	P=0.012N*	P=0.022N*	P=0.090N
POLY 1.5	P=0.159N	P=0.014N*	P=0.021N*	P=0.082N
POLY 6	P=0.206N	P=0.009N**	P=0.025N*	P=0.102N
LOGISTIC REGRESSION	P=0.142N	P=0.047N*	P=0.022N*	P=0.069N
COCH-ARM / FISHERS	P=0.133N	P=0.020N*	P=0.020N*	P=0.072N
ORDER RESTRICTED	P=0.030N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.036N*	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Medulla  
 Fibrosis**

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.83	0/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	2/22 (9%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	727 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.082N	P=0.148N	P=0.166N	P=0.143N
POLY 3	P=0.124N	P=0.215N	P=0.224N	P=0.217N
POLY 1.5	P=0.118N	P=0.226N	P=0.232N	P=0.227N
POLY 6	P=0.134N	P=0.199N	P=0.213N	P=0.199N
LOGISTIC REGRESSION	P=0.082N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.023N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.032N*	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Medulla  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	19/50 (38%)	26/50 (52%)	17/50 (34%)	13/50 (26%)
POLY-3 RATE (b)	19/43.65	26/45.87	17/44.67	13/45.13
POLY-3 PERCENT (g)	43.5%	56.7%	38.1%	28.8%
TERMINAL (d)	6/22 (27%)	20/34 (59%)	12/31 (39%)	10/35 (29%)
FIRST INCIDENCE	603	654	483	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.003N**	P=0.469N	P=0.158N	P=0.017N*
POLY 3	P=0.021N*	P=0.145	P=0.378N	P=0.107N
POLY 1.5	P=0.027N*	P=0.126	P=0.402N	P=0.125N
POLY 6	P=0.015N*	P=0.181	P=0.353N	P=0.084N
LOGISTIC REGRESSION	P=0.014N*	P=0.257	P=0.361N	P=0.077N
COCH-ARM / FISHERS	P=0.036N*	P=0.114	P=0.418N	P=0.142N
ORDER RESTRICTED	P=0.024N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.029N*	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Adrenal Medulla  
 Infiltration Cellular Lymphoid

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Bone Marrow  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	19/50 (38%)	20/50 (40%)	27/50 (54%)	16/50 (32%)
POLY-3 RATE (b)	19/46.27	20/47.93	27/46.82	16/47.71
POLY-3 PERCENT (g)	41.1%	41.7%	57.7%	33.5%
TERMINAL (d)	2/22 (9%)	9/34 (27%)	13/31 (42%)	8/35 (23%)
FIRST INCIDENCE	517	366	603	349

**STATISTICAL TESTS**

LIFE TABLE	P=0.123N	P=0.285N	P=0.350	P=0.125N
POLY 3	P=0.287N	P=0.557	P=0.078	P=0.294N
POLY 1.5	P=0.310N	P=0.531	P=0.072	P=0.316N
POLY 6	P=0.256N	P=0.574N	P=0.092	P=0.263N
LOGISTIC REGRESSION	P=0.368N	P=0.343	P=0.074	P=0.466N
COCH-ARM / FISHERS	P=0.331N	P=0.500	P=0.080	P=0.338N
ORDER RESTRICTED	P=0.146N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.156N	(e)	(e)	(e)

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Compression**

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.03	2/45.66	0/43.21	0/44.87
POLY-3 PERCENT (g)	2.4%	4.4%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	674	616	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.161N	P=0.588	P=0.482N	P=0.451N
POLY 3	P=0.174N	P=0.537	P=0.490N	P=0.482N
POLY 1.5	P=0.182N	P=0.519	P=0.496N	P=0.492N
POLY 6	P=0.163N	P=0.567	P=0.480N	P=0.466N
LOGISTIC REGRESSION	P=0.191N	P=0.476	P=0.501N	P=0.504N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.172N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.195N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Hemorrhage**

**LESION RATES**

OVERALL (a)	4/50 (8%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/42.81	2/45.74	1/43.42	0/44.87
POLY-3 PERCENT (g)	9.3%	4.4%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	489	589	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.026N*	P=0.293N	P=0.168N	P=0.062N
POLY 3	P=0.028N*	P=0.307N	P=0.174N	P=0.054N
POLY 1.5	P=0.029N*	P=0.323N	P=0.179N	P=0.058N
POLY 6	P=0.027N*	P=0.280N	P=0.164N	P=0.048N*
LOGISTIC REGRESSION	P=0.024N*	P=0.383N	P=0.144N	P=0.040N*
COCH-ARM / FISHERS	P=0.030N*	P=0.339N	P=0.181N	P=0.059N
ORDER RESTRICTED	P=0.016N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.021N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Hydrocephalus**

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.83	1/45.37	0/43.21	2/44.87
POLY-3 PERCENT (g)	0%	2.2%	0%	4.5%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	2/35 (6%)
FIRST INCIDENCE	---	672	---	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.185	P=0.554	(e)	P=0.345
POLY 3	P=0.152	P=0.521	(e)	P=0.259
POLY 1.5	P=0.145	P=0.511	(e)	P=0.247
POLY 6	P=0.164	P=0.538	(e)	P=0.279
LOGISTIC REGRESSION	P=0.152	P=0.491	(e)	P=0.345
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
ORDER RESTRICTED	P=0.089	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.106	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Epididymis  
 Granuloma Sperm**

**LESION RATES**

OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	4/41.29	0/45.16	0/43.21	2/45.08
POLY-3 PERCENT (g)	9.7%	0%	0%	4.4%
TERMINAL (d)	2/22 (9%)	0/34 (0%)	0/31 (0%)	1/35 (3%)
FIRST INCIDENCE	636	---	---	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.257N	P=0.030N*	P=0.040N*	P=0.194N
POLY 3	P=0.352N	P=0.049N*	P=0.054N	P=0.297N
POLY 1.5	P=0.344N	P=0.055N	P=0.058N	P=0.318N
POLY 6	P=0.367N	P=0.042N*	P=0.049N*	P=0.263N
LOGISTIC REGRESSION	P=0.325N	P=0.052N	P=0.055N	P=0.302N
COCH-ARM / FISHERS	P=0.337N	P=0.059N	P=0.059N	P=0.339N
ORDER RESTRICTED	P=0.024N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

---

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

---

Eye: Lens  
 Cataract

**LESION RATES**

OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/41.22	1/45.16	0/43.21	1/45.11
POLY-3 PERCENT (g)	7.3%	2.2%	0%	2.2%
TERMINAL (d)	2/22 (9%)	1/34 (3%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	616	727 (T)	---	664

**STATISTICAL TESTS**

LIFE TABLE	P=0.148N	P=0.190N	P=0.083N	P=0.206N
POLY 3	P=0.202N	P=0.273N	P=0.110N	P=0.273N
POLY 1.5	P=0.201N	P=0.289N	P=0.115N	P=0.290N
POLY 6	P=0.205N	P=0.248N	P=0.102N	P=0.246N
LOGISTIC REGRESSION	P=0.195N	P=0.270N	P=0.114N	P=0.302N
COCH-ARM / FISHERS	P=0.200N	P=0.309N	P=0.121N	P=0.309N
ORDER RESTRICTED	P=0.066N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081N	(e)	(e)	(e)

---

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

---

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

---

Eye: Retina  
 Degeneration

**LESION RATES**

OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/41.22	1/45.16	0/43.21	1/45.11
POLY-3 PERCENT (g)	7.3%	2.2%	0%	2.2%
TERMINAL (d)	2/22 (9%)	1/34 (3%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	616	727 (T)	---	664

**STATISTICAL TESTS**

LIFE TABLE	P=0.148N	P=0.190N	P=0.083N	P=0.206N
POLY 3	P=0.202N	P=0.273N	P=0.110N	P=0.273N
POLY 1.5	P=0.201N	P=0.289N	P=0.115N	P=0.290N
POLY 6	P=0.205N	P=0.248N	P=0.102N	P=0.246N
LOGISTIC REGRESSION	P=0.195N	P=0.270N	P=0.114N	P=0.302N
COCH-ARM / FISHERS	P=0.200N	P=0.309N	P=0.121N	P=0.309N
ORDER RESTRICTED	P=0.066N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081N	(e)	(e)	(e)

---

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Harderian Gland  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	5/49 (10%)	6/50 (12%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	5/41.16	6/45.16	3/43.55	7/44.98
POLY-3 PERCENT (g)	12.2%	13.3%	6.9%	15.6%
TERMINAL (d)	4/22 (18%)	6/34 (18%)	2/31 (7%)	6/35 (17%)
FIRST INCIDENCE	519	727 (T)	634	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.543N	P=0.481N	P=0.222N	P=0.563N
POLY 3	P=0.403	P=0.565	P=0.325N	P=0.442
POLY 1.5	P=0.385	P=0.538	P=0.339N	P=0.414
POLY 6	P=0.437	P=0.613	P=0.299N	P=0.497
LOGISTIC REGRESSION	P=0.445	P=0.615	P=0.336N	P=0.486
COCH-ARM / FISHERS	P=0.374	P=0.514	P=0.346N	P=0.394
ORDER RESTRICTED	P=0.396	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.412	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Heart  
 Cardiomyopathy**

**LESION RATES**

OVERALL (a)	48/50 (96%)	49/50 (98%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	48/49.16	49/49.13	49/49.02	48/48.97
POLY-3 PERCENT (g)	97.6%	99.7%	100%	98%
TERMINAL (d)	22/22 (100%)	34/34 (100%)	31/31 (100%)	35/35 (100%)
FIRST INCIDENCE	489	436	483	349

**STATISTICAL TESTS**

LIFE TABLE	P=0.013N*	P=0.011N*	P=0.073N	P=0.005N**
POLY 3	P=0.698N	P=0.484	P=0.431	P=0.746
POLY 1.5	P=0.646	P=0.444	P=0.358	P=0.685
POLY 6	P=0.609N	P=0.747	P=0.737	P=0.821N
LOGISTIC REGRESSION	P=0.496	P=0.443	P=0.325	P=0.653
COCH-ARM / FISHERS	P=0.556N	P=0.500	P=0.500	P=0.691N
ORDER RESTRICTED	P=0.289	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.295	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Heart: Atrium  
 Fibrosis

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.83	0/45.16	0/43.21	2/45.01
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.067	(e)	(e)	P=0.351
POLY 3	P=0.047*	(e)	(e)	P=0.259
POLY 1.5	P=0.046*	(e)	(e)	P=0.247
POLY 6	P=0.049*	(e)	(e)	P=0.281
LOGISTIC REGRESSION	P=0.051	(e)	(e)	P=0.274
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.037*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.051	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Heart: Atrium  
 Thrombosis

**LESION RATES**

OVERALL (a)	5/50 (10%)	4/50 (8%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	5/42.19	4/45.32	3/43.80	2/44.93
POLY-3 PERCENT (g)	11.9%	8.8%	6.9%	4.5%
TERMINAL (d)	0/22 (0%)	2/34 (6%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	532	693	605	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.089N	P=0.315N	P=0.278N	P=0.116N
POLY 3	P=0.139N	P=0.455N	P=0.335N	P=0.191N
POLY 1.5	P=0.147N	P=0.478N	P=0.349N	P=0.205N
POLY 6	P=0.128N	P=0.417N	P=0.313N	P=0.168N
LOGISTIC REGRESSION	P=0.153N	P=0.516N	P=0.360N	P=0.228N
COCH-ARM / FISHERS	P=0.151N	P=0.500N	P=0.357N	P=0.218N
ORDER RESTRICTED	P=0.159N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.176N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Intestine Large, Colon  
 Parasite Metazoan**

**LESION RATES**

OVERALL (a)	3/50 (6%)	5/50 (10%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	3/40.83	5/45.16	3/43.21	7/44.90
POLY-3 PERCENT (g)	7.4%	11.1%	6.9%	15.6%
TERMINAL (d)	3/22 (14%)	5/34 (15%)	3/31 (10%)	6/35 (17%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.293	P=0.609	P=0.497N	P=0.405
POLY 3	P=0.164	P=0.413	P=0.637N	P=0.197
POLY 1.5	P=0.150	P=0.385	P=0.652N	P=0.176
POLY 6	P=0.189	P=0.461	P=0.611N	P=0.239
LOGISTIC REGRESSION	P=0.289	P=0.609	P=0.497N	P=0.399
COCH-ARM / FISHERS	P=0.139	P=0.357	P=0.661N	P=0.159
ORDER RESTRICTED	P=0.166	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.190	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Intestine Large, Rectum  
 Parasite Metazoan

**LESION RATES**

OVERALL (a)	4/50 (8%)	7/50 (14%)	4/50 (8%)	7/50 (14%)
POLY-3 RATE (b)	4/40.83	7/45.17	4/43.21	7/45.01
POLY-3 PERCENT (g)	9.8%	15.5%	9.3%	15.6%
TERMINAL (d)	4/22 (18%)	6/34 (18%)	4/31 (13%)	6/35 (17%)
FIRST INCIDENCE	727 (T)	724	727 (T)	692

**STATISTICAL TESTS**

LIFE TABLE	P=0.530	P=0.549	P=0.445N	P=0.559
POLY 3	P=0.348	P=0.321	P=0.613N	P=0.319
POLY 1.5	P=0.320	P=0.291	P=0.630N	P=0.287
POLY 6	P=0.396	P=0.374	P=0.582N	P=0.375
LOGISTIC REGRESSION	P=0.507	P=0.567	P=0.445N	P=0.518
COCH-ARM / FISHERS	P=0.296	P=0.262	P=0.643N	P=0.262
ORDER RESTRICTED	P=0.339	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.362	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Islets, Pancreatic  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/40.83	0/45.16	2/43.21	0/44.87
POLY-3 PERCENT (g)	2.5%	0%	4.6%	0%
TERMINAL (d)	1/22 (5%)	0/34 (0%)	2/31 (7%)	0/35 (0%)
FIRST INCIDENCE	727 (T)	---	727 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.375N	P=0.413N	P=0.620	P=0.407N
POLY 3	P=0.449N	P=0.480N	P=0.520	P=0.481N
POLY 1.5	P=0.456N	P=0.490N	P=0.508	P=0.491N
POLY 6	P=0.440N	P=0.464N	P=0.539	P=0.464N
LOGISTIC REGRESSION	P=0.375N	(e)	P=0.620	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.307N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.331N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Infarct**

**LESION RATES**

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	2/45.29	1/43.42	0/44.87
POLY-3 PERCENT (g)	0%	4.4%	2.3%	0%
TERMINAL (d)	0/22 (0%)	1/34 (3%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	693	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.400N	P=0.326	P=0.534	(e)
POLY 3	P=0.422N	P=0.261	P=0.512	(e)
POLY 1.5	P=0.442N	P=0.249	P=0.505	(e)
POLY 6	P=0.389N	P=0.282	P=0.524	(e)
LOGISTIC REGRESSION	P=0.452N	P=0.274	P=0.499	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.328N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.351N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Mineralization**

**LESION RATES**

OVERALL (a)	19/50 (38%)	30/50 (60%)	22/50 (44%)	30/50 (60%)
POLY-3 RATE (b)	19/43.08	30/47.27	22/44.98	30/48.38
POLY-3 PERCENT (g)	44.1%	63.5%	48.9%	62%
TERMINAL (d)	12/22 (55%)	21/34 (62%)	16/31 (52%)	21/35 (60%)
FIRST INCIDENCE	519	548	603	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.471	P=0.422	P=0.381N	P=0.421
POLY 3	P=0.134	P=0.045*	P=0.404	P=0.060
POLY 1.5	P=0.090	P=0.030*	P=0.363	P=0.037*
POLY 6	P=0.221	P=0.089	P=0.479	P=0.122
LOGISTIC REGRESSION	P=0.078	P=0.052	P=0.438	P=0.028*
COCH-ARM / FISHERS	P=0.060	P=0.022*	P=0.342	P=0.022*
ORDER RESTRICTED	P=0.057	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.075	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006  
 Time Report Requested: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Nephropathy**

**LESION RATES**

OVERALL (a)	50/50 (100%)	49/50 (98%)	45/50 (90%)	47/50 (94%)
POLY-3 RATE (b)	50/50.00	49/49.95	45/48.84	47/48.59
POLY-3 PERCENT (g)	100%	98.1%	92.1%	96.7%
TERMINAL (d)	22/22 (100%)	34/34 (100%)	31/31 (100%)	35/35 (100%)
FIRST INCIDENCE	489	366	179	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.003N**	P=0.006N**	P=0.009N**	P<0.001N**
POLY 3	P=0.179N	P=0.522N	P=0.043N*	P=0.284N
POLY 1.5	P=0.131N	P=0.511N	P=0.036N*	P=0.198N
POLY 6	P=0.245N	P=0.545N	P=0.063N	P=0.415N
LOGISTIC REGRESSION	P=0.072N	P=0.547N	P=0.032N*	P=0.134N
COCH-ARM / FISHERS	P=0.075N	P=0.500N	P=0.028N*	P=0.121N
ORDER RESTRICTED	P=0.057N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.064N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney: Cortex  
 Cyst**

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.46	1/45.37	0/43.21	0/44.87
POLY-3 PERCENT (g)	2.4%	2.2%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	519	672	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.222N	P=0.731N	P=0.504N	P=0.500N
POLY 3	P=0.233N	P=0.740N	P=0.492N	P=0.484N
POLY 1.5	P=0.235N	P=0.751N	P=0.497N	P=0.493N
POLY 6	P=0.230N	P=0.722N	P=0.483N	P=0.469N
LOGISTIC REGRESSION	P=0.219N	P=0.761	P=0.417N	P=0.410N
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.237N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.256N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney: Renal Tubule  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/45.16	2/43.45	0/44.87
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.651	(e)	P=0.301	(e)
POLY 3	P=0.629	(e)	P=0.251	(e)
POLY 1.5	P=0.611	(e)	P=0.243	(e)
POLY 6	P=0.658	(e)	P=0.265	(e)
LOGISTIC REGRESSION	P=0.601	(e)	P=0.247	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.260	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Angiectasis

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/40.83	1/45.16	0/43.21	2/44.87
POLY-3 PERCENT (g)	2.5%	2.2%	0%	4.5%
TERMINAL (d)	1/22 (5%)	1/34 (3%)	0/31 (0%)	2/35 (6%)
FIRST INCIDENCE	727 (T)	727 (T)	---	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.464	P=0.662N	P=0.432N	P=0.660
POLY 3	P=0.380	P=0.738N	P=0.489N	P=0.533
POLY 1.5	P=0.373	P=0.749N	P=0.495N	P=0.515
POLY 6	P=0.392	P=0.718N	P=0.478N	P=0.562
LOGISTIC REGRESSION	P=0.464	P=0.662N	(e)	P=0.660
COCH-ARM / FISHERS	P=0.366	P=0.753N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.297	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.321	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Basophilic Focus

**LESION RATES**

OVERALL (a)	25/50 (50%)	32/50 (64%)	27/50 (54%)	34/50 (68%)
POLY-3 RATE (b)	25/42.72	32/46.53	27/44.24	34/46.43
POLY-3 PERCENT (g)	58.5%	68.8%	61%	73.2%
TERMINAL (d)	19/22 (86%)	28/34 (82%)	25/31 (81%)	29/35 (83%)
FIRST INCIDENCE	532	548	490	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.346N	P=0.225N	P=0.106N	P=0.306N
POLY 3	P=0.119	P=0.203	P=0.492	P=0.092
POLY 1.5	P=0.090	P=0.148	P=0.443	P=0.062
POLY 6	P=0.195	P=0.340	P=0.580	P=0.186
LOGISTIC REGRESSION	P=0.216	P=0.383	P=0.494N	P=0.206
COCH-ARM / FISHERS	P=0.079	P=0.113	P=0.421	P=0.052
ORDER RESTRICTED	P=0.095	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Clear Cell Focus

**LESION RATES**

OVERALL (a)	4/50 (8%)	6/50 (12%)	11/50 (22%)	20/50 (40%)
POLY-3 RATE (b)	4/40.83	6/45.16	11/43.21	20/44.87
POLY-3 PERCENT (g)	9.8%	13.3%	25.5%	44.6%
TERMINAL (d)	4/22 (18%)	6/34 (18%)	11/31 (36%)	20/35 (57%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.619N	P=0.145	P=0.005**
POLY 3	P<0.001**	P=0.434	P=0.053	P<0.001**
POLY 1.5	P<0.001**	P=0.402	P=0.047*	P<0.001**
POLY 6	P<0.001**	P=0.489	P=0.064	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.619N	P=0.145	P=0.005**
COCH-ARM / FISHERS	P<0.001**	P=0.370	P=0.045*	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Eosinophilic Focus

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/40.83	0/45.16	2/43.21	2/44.87
POLY-3 PERCENT (g)	2.5%	0%	4.6%	4.5%
TERMINAL (d)	1/22 (5%)	0/34 (0%)	2/31 (7%)	2/35 (6%)
FIRST INCIDENCE	727 (T)	---	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.340	P=0.413N	P=0.620	P=0.660
POLY 3	P=0.260	P=0.480N	P=0.520	P=0.533
POLY 1.5	P=0.252	P=0.490N	P=0.508	P=0.515
POLY 6	P=0.273	P=0.464N	P=0.539	P=0.562
LOGISTIC REGRESSION	P=0.340	(e)	P=0.620	P=0.660
COCH-ARM / FISHERS	P=0.245	P=0.500N	P=0.500	P=0.500
ORDER RESTRICTED	P=0.282	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.305	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Hematopoietic Cell Proliferation

**LESION RATES**

OVERALL (a)	5/50 (10%)	5/50 (10%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	5/42.36	5/45.16	3/43.62	7/45.31
POLY-3 PERCENT (g)	11.8%	11.1%	6.9%	15.5%
TERMINAL (d)	1/22 (5%)	5/34 (15%)	2/31 (7%)	3/35 (9%)
FIRST INCIDENCE	532	727 (T)	610	654

**STATISTICAL TESTS**

LIFE TABLE	P=0.499	P=0.426N	P=0.267N	P=0.612N
POLY 3	P=0.342	P=0.590N	P=0.340N	P=0.427
POLY 1.5	P=0.327	P=0.611N	P=0.351N	P=0.400
POLY 6	P=0.369	P=0.554N	P=0.320N	P=0.476
LOGISTIC REGRESSION	P=0.326	P=0.623	P=0.359N	P=0.372
COCH-ARM / FISHERS	P=0.316	P=0.630N	P=0.357N	P=0.380
ORDER RESTRICTED	P=0.329	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.348	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Hepatodiaphragmatic Nodule

**LESION RATES**

OVERALL (a)	4/50 (8%)	6/50 (12%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	4/42.06	6/45.58	6/45.11	3/45.33
POLY-3 PERCENT (g)	9.5%	13.2%	13.3%	6.6%
TERMINAL (d)	2/22 (9%)	4/34 (12%)	3/31 (10%)	2/35 (6%)
FIRST INCIDENCE	517	616	179	594

**STATISTICAL TESTS**

LIFE TABLE	P=0.229N	P=0.578	P=0.485	P=0.354N
POLY 3	P=0.313N	P=0.421	P=0.414	P=0.459N
POLY 1.5	P=0.337N	P=0.394	P=0.394	P=0.482N
POLY 6	P=0.273N	P=0.468	P=0.447	P=0.419N
LOGISTIC REGRESSION	P=0.369N	P=0.346	P=0.365	P=0.523N
COCH-ARM / FISHERS	P=0.357N	P=0.370	P=0.370	P=0.500N
ORDER RESTRICTED	P=0.330N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.350N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	25/50 (50%)	34/50 (68%)	30/50 (60%)	38/50 (76%)
POLY-3 RATE (b)	25/42.35	34/46.58	30/45.41	38/48.25
POLY-3 PERCENT (g)	59%	73%	66.1%	78.8%
TERMINAL (d)	22/22 (100%)	29/34 (85%)	26/31 (84%)	29/35 (83%)
FIRST INCIDENCE	519	548	483	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.415	P=0.313N	P=0.249N	P=0.556
POLY 3	P=0.042*	P=0.105	P=0.312	P=0.025*
POLY 1.5	P=0.021*	P=0.069	P=0.249	P=0.011*
POLY 6	P=0.114	P=0.222	P=0.444	P=0.094
LOGISTIC REGRESSION	P=0.024*	P=0.269	P=0.372	P=0.016*
COCH-ARM / FISHERS	P=0.012*	P=0.052	P=0.211	P=0.006**
ORDER RESTRICTED	P=0.021*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.032*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Mixed Cell Focus

**LESION RATES**

OVERALL (a)	16/50 (32%)	17/50 (34%)	16/50 (32%)	17/50 (34%)
POLY-3 RATE (b)	16/40.83	17/45.16	16/43.21	17/44.87
POLY-3 PERCENT (g)	39.2%	37.7%	37%	37.9%
TERMINAL (d)	16/22 (73%)	17/34 (50%)	16/31 (52%)	17/35 (49%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.116N	P=0.081N	P=0.105N	P=0.066N
POLY 3	P=0.506N	P=0.530N	P=0.509N	P=0.540N
POLY 1.5	P=0.525	P=0.573	P=0.555N	P=0.564
POLY 6	P=0.418N	P=0.405N	P=0.425N	P=0.411N
LOGISTIC REGRESSION	P=0.116N	P=0.081N	P=0.105N	P=0.066N
COCH-ARM / FISHERS	P=0.480	P=0.500	P=0.585N	P=0.500
ORDER RESTRICTED	P=0.667N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.671N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Bile Duct  
 Hyperplasia

**LESION RATES**

OVERALL (a)	49/50 (98%)	47/50 (94%)	47/50 (94%)	48/50 (96%)
POLY-3 RATE (b)	49/49.87	47/50.00	47/48.31	48/48.18
POLY-3 PERCENT (g)	98.3%	94%	97.3%	99.6%
TERMINAL (d)	22/22 (100%)	31/34 (91%)	31/31 (100%)	35/35 (100%)
FIRST INCIDENCE	489	366	483	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.014N*	P=0.006N**	P=0.028N*	P=0.003N**
POLY 3	P=0.273	P=0.277N	P=0.659N	P=0.648
POLY 1.5	P=0.386	P=0.291N	P=0.545N	P=0.748
POLY 6	P=0.224	P=0.252N	P=0.813N	P=0.645
LOGISTIC REGRESSION	P=0.544N	P=0.412N	P=0.376N	P=0.782N
COCH-ARM / FISHERS	P=0.477N	P=0.309N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.199	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.212	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Degeneration Cystic

**LESION RATES**

OVERALL (a)	8/50 (16%)	17/50 (34%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	8/43.24	17/47.53	15/45.96	10/46.07
POLY-3 PERCENT (g)	18.5%	35.8%	32.6%	21.7%
TERMINAL (d)	2/22 (9%)	11/34 (32%)	10/31 (32%)	6/35 (17%)
FIRST INCIDENCE	541	366	179	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.258N	P=0.181	P=0.214	P=0.521N
POLY 3	P=0.451N	P=0.051	P=0.097	P=0.455
POLY 1.5	P=0.486N	P=0.041*	P=0.087	P=0.426
POLY 6	P=0.394N	P=0.071	P=0.111	P=0.503
LOGISTIC REGRESSION	P=0.527	P=0.017*	P=0.062	P=0.354
COCH-ARM / FISHERS	P=0.522N	P=0.032*	P=0.077	P=0.398
ORDER RESTRICTED	P=0.169	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.187	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Fatty Change

**LESION RATES**

OVERALL (a)	14/50 (28%)	7/50 (14%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	14/44.88	7/47.30	7/45.74	2/45.83
POLY-3 PERCENT (g)	31.2%	14.8%	15.3%	4.4%
TERMINAL (d)	0/22 (0%)	1/34 (3%)	2/31 (7%)	0/35 (0%)
FIRST INCIDENCE	519	436	483	301

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P=0.033N*	P=0.055N	P<0.001N**
POLY 3	P<0.001N**	P=0.049N*	P=0.059N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.058N	P=0.064N	P<0.001N**
POLY 6	P<0.001N**	P=0.039N*	P=0.053N	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.135N	P=0.079N	P=0.002N**
COCH-ARM / FISHERS	P<0.001N**	P=0.070N	P=0.070N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Necrosis

**LESION RATES**

OVERALL (a)	0/50 (0%)	4/50 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	4/46.20	2/43.83	0/44.87
POLY-3 PERCENT (g)	0%	8.7%	4.6%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	366	610	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.279N	P=0.114	P=0.270	(e)
POLY 3	P=0.281N	P=0.078	P=0.253	(e)
POLY 1.5	P=0.309N	P=0.069	P=0.244	(e)
POLY 6	P=0.238N	P=0.092	P=0.269	(e)
LOGISTIC REGRESSION	P=0.333N	P=0.049*	P=0.239	(e)
COCH-ARM / FISHERS	P=0.337N	P=0.059	P=0.247	(e)
ORDER RESTRICTED	P=0.190N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Vacuolization Cytoplasmic

**LESION RATES**

OVERALL (a)	18/50 (36%)	24/50 (48%)	16/50 (32%)	24/50 (48%)
POLY-3 RATE (b)	18/41.57	24/46.05	16/44.20	24/44.87
POLY-3 PERCENT (g)	43.3%	52.1%	36.2%	53.5%
TERMINAL (d)	16/22 (73%)	19/34 (56%)	15/31 (48%)	24/35 (69%)
FIRST INCIDENCE	616	616	179	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.294N	P=0.374N	P=0.056N	P=0.272N
POLY 3	P=0.292	P=0.266	P=0.322N	P=0.225
POLY 1.5	P=0.256	P=0.203	P=0.366N	P=0.181
POLY 6	P=0.358	P=0.400	P=0.257N	P=0.325
LOGISTIC REGRESSION	P=0.457	P=0.518	P=0.284N	P=0.486N
COCH-ARM / FISHERS	P=0.233	P=0.156	P=0.417N	P=0.156
ORDER RESTRICTED	P=0.265	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.284	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte, Centrilobular  
 Degeneration

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	2/41.54	1/45.18	5/44.18	3/45.09
POLY-3 PERCENT (g)	4.8%	2.2%	11.3%	6.7%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	2/31 (7%)	0/35 (0%)
FIRST INCIDENCE	532	720	605	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.397	P=0.398N	P=0.301	P=0.661
POLY 3	P=0.310	P=0.471N	P=0.241	P=0.537
POLY 1.5	P=0.294	P=0.486N	P=0.227	P=0.517
POLY 6	P=0.338	P=0.446N	P=0.266	P=0.573
LOGISTIC REGRESSION	P=0.276	P=0.530N	P=0.213	P=0.489
COCH-ARM / FISHERS	P=0.282	P=0.500N	P=0.218	P=0.500
ORDER RESTRICTED	P=0.233	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.253	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Fibrosis**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.83	0/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/22 (5%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	727 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.262N	P=0.413N	P=0.432N	P=0.407N
POLY 3	P=0.324N	P=0.480N	P=0.489N	P=0.481N
POLY 1.5	P=0.314N	P=0.490N	P=0.495N	P=0.491N
POLY 6	P=0.340N	P=0.464N	P=0.478N	P=0.464N
LOGISTIC REGRESSION	P=0.262N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.105N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	22/50 (44%)	19/50 (38%)	24/50 (48%)	30/50 (60%)
POLY-3 RATE (b)	22/43.74	19/45.84	24/45.72	30/47.32
POLY-3 PERCENT (g)	50.3%	41.5%	52.5%	63.4%
TERMINAL (d)	13/22 (59%)	17/34 (50%)	19/31 (61%)	22/35 (63%)
FIRST INCIDENCE	519	548	179	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.329	P=0.025N*	P=0.261N	P=0.441N
POLY 3	P=0.046*	P=0.260N	P=0.502	P=0.140
POLY 1.5	P=0.034*	P=0.304N	P=0.463	P=0.100
POLY 6	P=0.076	P=0.192N	P=0.565	P=0.241
LOGISTIC REGRESSION	P=0.038*	P=0.210N	P=0.445	P=0.122
COCH-ARM / FISHERS	P=0.029*	P=0.342N	P=0.421	P=0.080
ORDER RESTRICTED	P=0.061	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.071	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Metaplasia Osseous**

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/40.83	2/45.16	1/43.21	1/45.33
POLY-3 PERCENT (g)	2.5%	4.4%	2.3%	2.2%
TERMINAL (d)	1/22 (5%)	2/34 (6%)	1/31 (3%)	0/35 (0%)
FIRST INCIDENCE	727 (T)	727 (T)	727 (T)	594

**STATISTICAL TESTS**

LIFE TABLE	P=0.435N	P=0.651	P=0.684N	P=0.699N
POLY 3	P=0.502N	P=0.535	P=0.748N	P=0.737N
POLY 1.5	P=0.517N	P=0.518	P=0.755N	P=0.749N
POLY 6	P=0.477N	P=0.564	P=0.736N	P=0.715N
LOGISTIC REGRESSION	P=0.515N	P=0.651	P=0.684N	P=0.755
COCH-ARM / FISHERS	P=0.531N	P=0.500	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.568N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.581N	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Pigmentation**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.83	0/45.16	0/43.21	1/44.87
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	1/35 (3%)
FIRST INCIDENCE	---	---	---	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.233	(e)	(e)	P=0.593
POLY 3	P=0.206	(e)	(e)	P=0.519
POLY 1.5	P=0.202	(e)	(e)	P=0.509
POLY 6	P=0.213	(e)	(e)	P=0.536
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.593
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.138	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.158	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung: Alveolar Epithelium  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	9/50 (18%)	15/50 (30%)	13/50 (26%)	9/50 (18%)
POLY-3 RATE (b)	9/42.93	15/45.16	13/43.29	9/44.87
POLY-3 PERCENT (g)	21%	33.2%	30%	20.1%
TERMINAL (d)	4/22 (18%)	15/34 (44%)	12/31 (39%)	9/35 (26%)
FIRST INCIDENCE	519	727 (T)	707	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.112N	P=0.441	P=0.502	P=0.277N
POLY 3	P=0.342N	P=0.144	P=0.234	P=0.563N
POLY 1.5	P=0.372N	P=0.130	P=0.228	P=0.588N
POLY 6	P=0.289N	P=0.174	P=0.249	P=0.515N
LOGISTIC REGRESSION	P=0.253N	P=0.172	P=0.277	P=0.573N
COCH-ARM / FISHERS	P=0.388N	P=0.121	P=0.235	P=0.602N
ORDER RESTRICTED	P=0.303N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.318N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Alveolus  
 Infiltration Cellular Histiocyte

**LESION RATES**

OVERALL (a)	28/50 (56%)	30/50 (60%)	34/50 (68%)	36/50 (72%)
POLY-3 RATE (b)	28/44.37	30/47.11	34/45.08	36/48.33
POLY-3 PERCENT (g)	63.1%	63.7%	75.4%	74.5%
TERMINAL (d)	18/22 (82%)	26/34 (77%)	28/31 (90%)	27/35 (77%)
FIRST INCIDENCE	519	436	490	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.454N	P=0.059N	P=0.361N	P=0.290N
POLY 3	P=0.087	P=0.566	P=0.132	P=0.158
POLY 1.5	P=0.060	P=0.491	P=0.129	P=0.105
POLY 6	P=0.159	P=0.497N	P=0.148	P=0.287
LOGISTIC REGRESSION	P=0.066	P=0.575	P=0.254	P=0.099
COCH-ARM / FISHERS	P=0.045*	P=0.420	P=0.151	P=0.072
ORDER RESTRICTED	P=0.151	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.139	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung: Bronchus  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.83	0/45.16	0/43.21	1/45.48
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.202	(e)	(e)	P=0.508
POLY 3	P=0.208	(e)	(e)	P=0.521
POLY 1.5	P=0.203	(e)	(e)	P=0.510
POLY 6	P=0.216	(e)	(e)	P=0.539
LOGISTIC REGRESSION	P=0.209	(e)	(e)	P=0.573
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.140	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.163	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Bronchus  
 Metaplasia

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Perivascular  
 Infiltration Cellular Lymphoid

**LESION RATES**

OVERALL (a)	29/50 (58%)	28/50 (56%)	28/50 (56%)	32/50 (64%)
POLY-3 RATE (b)	29/44.05	28/47.11	28/45.90	32/46.45
POLY-3 PERCENT (g)	65.8%	59.4%	61%	68.9%
TERMINAL (d)	20/22 (91%)	24/34 (71%)	22/31 (71%)	27/35 (77%)
FIRST INCIDENCE	519	436	483	573

**STATISTICAL TESTS**

LIFE TABLE	P=0.152N	P=0.013N*	P=0.053N	P=0.044N*
POLY 3	P=0.327	P=0.333N	P=0.394N	P=0.464
POLY 1.5	P=0.284	P=0.416N	P=0.457N	P=0.383
POLY 6	P=0.424	P=0.210N	P=0.294N	P=0.569N
LOGISTIC REGRESSION	P=0.367	P=0.331N	P=0.403N	P=0.587
COCH-ARM / FISHERS	P=0.272	P=0.500N	P=0.500N	P=0.341
ORDER RESTRICTED	P=0.385	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.398	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland  
 Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.83	0/44.16	0/43.21	2/44.87
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/22 (0%)	0/33 (0%)	0/31 (0%)	2/35 (6%)
FIRST INCIDENCE	---	---	---	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.066	(e)	(e)	P=0.345
POLY 3	P=0.048*	(e)	(e)	P=0.259
POLY 1.5	P=0.047*	(e)	(e)	P=0.247
POLY 6	P=0.050*	(e)	(e)	P=0.279
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.345
COCH-ARM / FISHERS	P=0.047*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.037*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.051	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland  
 Galactocele**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/44.16	1/43.21	0/44.87
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/33 (0%)	1/31 (3%)	0/35 (0%)
FIRST INCIDENCE	---	---	727 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.740	(e)	P=0.568	(e)
POLY 3	P=0.720	(e)	P=0.511	(e)
POLY 1.5	P=0.707	(e)	P=0.505	(e)
POLY 6	P=0.742	(e)	P=0.522	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.568	(e)
COCH-ARM / FISHERS	P=0.695	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.391	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.411	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland: Duct  
 Dilatation**

**LESION RATES**

OVERALL (a)	7/50 (14%)	15/49 (31%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	7/42.72	15/45.34	8/43.79	4/45.48
POLY-3 PERCENT (g)	16.4%	33.1%	18.3%	8.8%
TERMINAL (d)	0/22 (0%)	6/33 (18%)	6/31 (19%)	3/35 (9%)
FIRST INCIDENCE	609	616	634	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.025N*	P=0.224	P=0.559N	P=0.150N
POLY 3	P=0.046N*	P=0.056	P=0.521	P=0.225N
POLY 1.5	P=0.056N	P=0.046*	P=0.507	P=0.244N
POLY 6	P=0.034N*	P=0.077	P=0.542	P=0.198N
LOGISTIC REGRESSION	P=0.064N	P=0.044*	P=0.507	P=0.283N
COCH-ARM / FISHERS	P=0.070N	P=0.040*	P=0.500	P=0.262N
ORDER RESTRICTED	P=0.034N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.044N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Fibrosis

**LESION RATES**

OVERALL (a)	5/9 (56%)	6/8 (75%)	4/7 (57%)	3/6 (50%)
POLY-3 RATE (b)	5/7.27	6/7.89	4/6.17	3/6.00
POLY-3 PERCENT (g)	68.8%	76%	64.9%	50%
TERMINAL (d)	1/1 (100%)	5/6 (83%)	4/5 (80%)	2/5 (40%)
FIRST INCIDENCE	519	366	727 (T)	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.018N*	P=0.132N	P=0.051N	P=0.074N
POLY 3	P=0.268N	P=0.606	P=0.673N	P=0.447N
POLY 1.5	P=0.340N	P=0.498	P=0.686N	P=0.526N
POLY 6	P=0.182N	P=0.736N	P=0.660N	P=0.333N
LOGISTIC REGRESSION	P=0.312N	P=0.411	P=0.413N	P=0.482N
COCH-ARM / FISHERS	P=0.438N	P=0.373	P=0.671	P=0.622N
ORDER RESTRICTED	P=0.313N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.317N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	5/9 (56%)	5/8 (63%)	2/7 (29%)	2/6 (33%)
POLY-3 RATE (b)	5/7.72	5/7.89	2/6.17	2/6.00
POLY-3 PERCENT (g)	64.8%	63.4%	32.4%	33.3%
TERMINAL (d)	1/1 (100%)	4/6 (67%)	2/5 (40%)	1/5 (20%)
FIRST INCIDENCE	517	366	727 (T)	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.017N*	P=0.128N	P=0.035N*	P=0.062N
POLY 3	P=0.134N	P=0.678N	P=0.248N	P=0.267N
POLY 1.5	P=0.159N	P=0.655	P=0.267N	P=0.318N
POLY 6	P=0.101N	P=0.599N	P=0.219N	P=0.194N
LOGISTIC REGRESSION	P=0.286N	P=0.477	P=0.338N	P=0.669N
COCH-ARM / FISHERS	P=0.188N	P=0.581	P=0.286N	P=0.378N
ORDER RESTRICTED	P=0.193N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.200N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Mineralization

**LESION RATES**

OVERALL (a)	2/9 (22%)	1/8 (13%)	2/7 (29%)	1/6 (17%)
POLY-3 RATE (b)	2/6.43	1/7.02	2/6.17	1/5.97
POLY-3 PERCENT (g)	31.1%	14.2%	32.4%	16.8%
TERMINAL (d)	0/1 (0%)	1/6 (17%)	2/5 (40%)	1/5 (20%)
FIRST INCIDENCE	603	727 (T)	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.255N	P=0.285N	P=0.400N	P=0.303N
POLY 3	P=0.507N	P=0.467N	P=0.705	P=0.528N
POLY 1.5	P=0.542N	P=0.508N	P=0.662	P=0.582N
POLY 6	P=0.472N	P=0.399N	P=0.693N	P=0.450N
LOGISTIC REGRESSION	P=0.451N	P=0.482N	P=0.672N	P=0.639N
COCH-ARM / FISHERS	P=0.601N	P=0.547N	P=0.608	P=0.659N
ORDER RESTRICTED	P=0.450N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.474N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Necrosis

**LESION RATES**

OVERALL (a)	6/9 (67%)	6/8 (75%)	4/7 (57%)	4/6 (67%)
POLY-3 RATE (b)	6/7.91	6/7.13	4/6.17	4/6.00
POLY-3 PERCENT (g)	75.9%	84.2%	64.9%	66.7%
TERMINAL (d)	1/1 (100%)	5/6 (83%)	4/5 (80%)	3/5 (60%)
FIRST INCIDENCE	517	700	727 (T)	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.020N*	P=0.064N	P=0.029N*	P=0.055N
POLY 3	P=0.395N	P=0.601	P=0.558N	P=0.588N
POLY 1.5	P=0.457N	P=0.556	P=0.551N	P=0.642N
POLY 6	P=0.314N	P=0.713	P=0.576N	P=0.498N
LOGISTIC REGRESSION	P=0.226N	P=0.728	P=0.396N	P=0.771N
COCH-ARM / FISHERS	P=0.536N	P=0.563	P=0.549N	P=0.706N
ORDER RESTRICTED	P=0.436N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.447N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mesentery: Fat  
 Pigmentation**

**LESION RATES**

OVERALL (a)	0/9 (0%)	2/8 (25%)	0/7 (0%)	1/6 (17%)
POLY-3 RATE (b)	0/5.81	2/7.02	0/6.17	1/5.97
POLY-3 PERCENT (g)	0%	28.5%	0%	16.8%
TERMINAL (d)	0/1 (0%)	2/6 (33%)	0/5 (0%)	1/5 (20%)
FIRST INCIDENCE	---	727 (T)	---	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.619N	P=0.682	(e)	P=0.814
POLY 3	P=0.606	P=0.266	(e)	P=0.506
POLY 1.5	P=0.527	P=0.225	(e)	P=0.465
POLY 6	P=0.702N	P=0.346	(e)	P=0.566
LOGISTIC REGRESSION	(e)	P=0.682	(e)	P=0.814
COCH-ARM / FISHERS	P=0.432	P=0.206	(e)	P=0.400
ORDER RESTRICTED	P=0.308	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.355	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose  
 Foreign Body

**LESION RATES**

OVERALL (a)	10/50 (20%)	14/49 (29%)	7/48 (15%)	9/49 (18%)
POLY-3 RATE (b)	10/42.54	14/44.70	7/43.35	9/45.27
POLY-3 PERCENT (g)	23.5%	31.3%	16.2%	19.9%
TERMINAL (d)	4/22 (18%)	10/34 (29%)	4/31 (13%)	6/35 (17%)
FIRST INCIDENCE	609	671	591	654

**STATISTICAL TESTS**

LIFE TABLE	P=0.105N	P=0.560N	P=0.168N	P=0.211N
POLY 3	P=0.226N	P=0.281	P=0.279N	P=0.439N
POLY 1.5	P=0.256N	P=0.250	P=0.301N	P=0.479N
POLY 6	P=0.187N	P=0.337	P=0.248N	P=0.380N
LOGISTIC REGRESSION	P=0.235N	P=0.316	P=0.328N	P=0.465N
COCH-ARM / FISHERS	P=0.292N	P=0.224	P=0.330N	P=0.520N
ORDER RESTRICTED	P=0.227N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.248N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Inflammation**

**LESION RATES**

OVERALL (a)	3/50 (6%)	7/49 (14%)	5/48 (10%)	9/49 (18%)
POLY-3 RATE (b)	3/41.22	7/44.81	5/42.81	9/46.96
POLY-3 PERCENT (g)	7.3%	15.6%	11.7%	19.2%
TERMINAL (d)	2/22 (9%)	4/34 (12%)	4/31 (13%)	0/35 (0%)
FIRST INCIDENCE	616	589	591	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.173	P=0.345	P=0.515	P=0.170
POLY 3	P=0.108	P=0.192	P=0.377	P=0.094
POLY 1.5	P=0.086	P=0.170	P=0.357	P=0.073
POLY 6	P=0.149	P=0.233	P=0.408	P=0.134
LOGISTIC REGRESSION	P=0.059	P=0.179	P=0.369	P=0.040*
COCH-ARM / FISHERS	P=0.066	P=0.151	P=0.335	P=0.056
ORDER RESTRICTED	P=0.078	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.103	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	6/50 (12%)	9/49 (18%)	2/48 (4%)	5/49 (10%)
POLY-3 RATE (b)	6/41.52	9/44.21	2/42.48	5/44.76
POLY-3 PERCENT (g)	14.5%	20.4%	4.7%	11.2%
TERMINAL (d)	3/22 (14%)	9/34 (27%)	1/31 (3%)	5/35 (14%)
FIRST INCIDENCE	629	727 (T)	693	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.103N	P=0.604	P=0.078N	P=0.243N
POLY 3	P=0.210N	P=0.332	P=0.124N	P=0.447N
POLY 1.5	P=0.231N	P=0.302	P=0.134N	P=0.480N
POLY 6	P=0.181N	P=0.384	P=0.109N	P=0.397N
LOGISTIC REGRESSION	P=0.150N	P=0.453	P=0.117N	P=0.375N
COCH-ARM / FISHERS	P=0.257N	P=0.274	P=0.148N	P=0.514N
ORDER RESTRICTED	P=0.143N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.164N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Thrombosis**

**LESION RATES**

OVERALL (a)	2/50 (4%)	4/49 (8%)	6/48 (13%)	1/49 (2%)
POLY-3 RATE (b)	2/41.67	4/44.62	6/44.06	1/44.85
POLY-3 PERCENT (g)	4.8%	9%	13.6%	2.2%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	582	692	603	706

**STATISTICAL TESTS**

LIFE TABLE	P=0.282N	P=0.474	P=0.189	P=0.431N
POLY 3	P=0.319N	P=0.369	P=0.151	P=0.474N
POLY 1.5	P=0.346N	P=0.348	P=0.136	P=0.490N
POLY 6	P=0.280N	P=0.405	P=0.176	P=0.449N
LOGISTIC REGRESSION	P=0.420N	P=0.303	P=0.069	P=0.542N
COCH-ARM / FISHERS	P=0.377N	P=0.329	P=0.121	P=0.508N
ORDER RESTRICTED	P=0.168N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.192N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Nasolacrimal Duct  
 Inflammation**

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/49 (2%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/41.22	1/44.21	0/42.35	0/44.76
POLY-3 PERCENT (g)	4.9%	2.3%	0%	0%
TERMINAL (d)	1/22 (5%)	1/34 (3%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	616	727 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.075N	P=0.387N	P=0.197N	P=0.180N
POLY 3	P=0.102N	P=0.476N	P=0.231N	P=0.219N
POLY 1.5	P=0.103N	P=0.491N	P=0.238N	P=0.230N
POLY 6	P=0.103N	P=0.450N	P=0.220N	P=0.203N
LOGISTIC REGRESSION	P=0.102N	P=0.497N	P=0.255N	P=0.253N
COCH-ARM / FISHERS	P=0.103N	P=0.508N	P=0.258N	P=0.253N
ORDER RESTRICTED	P=0.063N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Nasolacrimal Duct  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	3/50 (6%)	4/49 (8%)	3/48 (6%)	1/49 (2%)
POLY-3 RATE (b)	3/41.58	4/44.32	3/42.71	1/44.76
POLY-3 PERCENT (g)	7.2%	9%	7%	2.2%
TERMINAL (d)	0/22 (0%)	3/34 (9%)	1/31 (3%)	1/35 (3%)
FIRST INCIDENCE	590	698	634	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.111N	P=0.621N	P=0.557N	P=0.209N
POLY 3	P=0.164N	P=0.535	P=0.650N	P=0.279N
POLY 1.5	P=0.178N	P=0.512	P=0.661	P=0.295N
POLY 6	P=0.145N	P=0.573	P=0.628N	P=0.255N
LOGISTIC REGRESSION	P=0.181N	P=0.513	P=0.631	P=0.328N
COCH-ARM / FISHERS	P=0.193N	P=0.489	P=0.641	P=0.316N
ORDER RESTRICTED	P=0.206N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.229N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Accumulation, Hyaline Droplet**

**LESION RATES**

OVERALL (a)	6/50 (12%)	0/49 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	6/41.18	0/44.21	0/42.35	0/44.76
POLY-3 PERCENT (g)	14.6%	0%	0%	0%
TERMINAL (d)	5/22 (23%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	629	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.002N**	P=0.004N**	P=0.006N**	P=0.004N**
POLY 3	P=0.004N**	P=0.012N*	P=0.013N*	P=0.011N*
POLY 1.5	P=0.003N**	P=0.014N*	P=0.015N*	P=0.014N*
POLY 6	P=0.004N**	P=0.009N**	P=0.011N*	P=0.008N**
LOGISTIC REGRESSION	P=0.003N**	P=0.008N**	P=0.011N*	P=0.008N**
COCH-ARM / FISHERS	P=0.004N**	P=0.014N*	P=0.015N*	P=0.014N*
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Degeneration**

**LESION RATES**

OVERALL (a)	18/50 (36%)	22/49 (45%)	26/48 (54%)	29/49 (59%)
POLY-3 RATE (b)	18/43.26	22/45.82	26/43.44	29/47.02
POLY-3 PERCENT (g)	41.6%	48%	59.9%	61.7%
TERMINAL (d)	11/22 (50%)	15/34 (44%)	21/31 (68%)	22/35 (63%)
FIRST INCIDENCE	519	587	610	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.240	P=0.349N	P=0.437	P=0.406
POLY 3	P=0.024*	P=0.345	P=0.060	P=0.039*
POLY 1.5	P=0.016*	P=0.289	P=0.056	P=0.025*
POLY 6	P=0.044*	P=0.452	P=0.072	P=0.078
LOGISTIC REGRESSION	P=0.026*	P=0.340	P=0.116	P=0.033*
COCH-ARM / FISHERS	P=0.011*	P=0.243	P=0.054	P=0.017*
ORDER RESTRICTED	P=0.034*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.037*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Metaplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/48 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/40.83	0/44.21	0/42.35	1/45.00
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	664

**STATISTICAL TESTS**

LIFE TABLE	P=0.215	(e)	(e)	P=0.541
POLY 3	P=0.209	(e)	(e)	P=0.519
POLY 1.5	P=0.203	(e)	(e)	P=0.508
POLY 6	P=0.217	(e)	(e)	P=0.537
LOGISTIC REGRESSION	P=0.191	(e)	(e)	P=0.481
COCH-ARM / FISHERS	P=0.197	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.138	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.163	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Metaplasia Respiratory**

**LESION RATES**

OVERALL (a)	2/50 (4%)	5/49 (10%)	3/48 (6%)	11/49 (22%)
POLY-3 RATE (b)	2/41.06	5/44.34	3/42.35	11/45.00
POLY-3 PERCENT (g)	4.9%	11.3%	7.1%	24.5%
TERMINAL (d)	1/22 (5%)	4/34 (12%)	3/31 (10%)	9/35 (26%)
FIRST INCIDENCE	666	693	727 (T)	673

**STATISTICAL TESTS**

LIFE TABLE	P=0.016*	P=0.396	P=0.631	P=0.056
POLY 3	P=0.004**	P=0.248	P=0.514	P=0.011*
POLY 1.5	P=0.003**	P=0.228	P=0.499	P=0.008**
POLY 6	P=0.006**	P=0.284	P=0.537	P=0.017*
LOGISTIC REGRESSION	P=0.009**	P=0.299	P=0.569	P=0.026*
COCH-ARM / FISHERS	P=0.003**	P=0.210	P=0.480	P=0.007**
ORDER RESTRICTED	P=0.003**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.006**	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose: Respiratory Epithelium  
 Accumulation, Hyaline Droplet

**LESION RATES**

OVERALL (a)	7/50 (14%)	0/49 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	7/41.54	0/44.21	0/42.35	0/44.76
POLY-3 PERCENT (g)	16.9%	0%	0%	0%
TERMINAL (d)	4/22 (18%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	629	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P=0.003N**	P=0.004N**	P=0.002N**
POLY 3	P<0.001N**	P=0.006N**	P=0.007N**	P=0.005N**
POLY 1.5	P<0.001N**	P=0.007N**	P=0.008N**	P=0.007N**
POLY 6	P=0.002N**	P=0.004N**	P=0.005N**	P=0.004N**
LOGISTIC REGRESSION	P<0.001N**	P=0.006N**	P=0.007N**	P=0.006N**
COCH-ARM / FISHERS	P=0.002N**	P=0.007N**	P=0.007N**	P=0.007N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Respiratory Epithelium  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	28/50 (56%)	24/49 (49%)	18/48 (38%)	23/49 (47%)
POLY-3 RATE (b)	28/45.82	24/45.27	18/44.40	23/46.52
POLY-3 PERCENT (g)	61.1%	53%	40.5%	49.4%
TERMINAL (d)	12/22 (55%)	19/34 (56%)	12/31 (39%)	16/35 (46%)
FIRST INCIDENCE	517	589	603	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.024N*	P=0.021N*	P=0.008N**	P=0.016N*
POLY 3	P=0.144N	P=0.280N	P=0.035N*	P=0.175N
POLY 1.5	P=0.169N	P=0.301N	P=0.041N*	P=0.208N
POLY 6	P=0.113N	P=0.239N	P=0.028N*	P=0.128N
LOGISTIC REGRESSION	P=0.155N	P=0.231N	P=0.049N*	P=0.217N
COCH-ARM / FISHERS	P=0.198N	P=0.309N	P=0.051N	P=0.242N
ORDER RESTRICTED	P=0.086N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.095N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Respiratory Epithelium  
 Metaplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	2/49 (4%)	1/48 (2%)	16/49 (33%)
POLY-3 RATE (b)	0/40.83	2/44.34	1/42.35	16/45.81
POLY-3 PERCENT (g)	0%	4.5%	2.4%	34.9%
TERMINAL (d)	0/22 (0%)	1/34 (3%)	1/31 (3%)	11/35 (31%)
FIRST INCIDENCE	---	693	727 (T)	594

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.326	P=0.568	P<0.001**
POLY 3	P<0.001**	P=0.256	P=0.507	P<0.001**
POLY 1.5	P<0.001**	P=0.244	P=0.500	P<0.001**
POLY 6	P<0.001**	P=0.276	P=0.519	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.269	P=0.568	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.242	P=0.490	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose: Respiratory Epithelium  
 Necrosis

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/49 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/41.18	0/44.21	0/42.35	0/44.76
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	629	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.295N	P=0.476N	P=0.490N	P=0.476N
POLY 3	P=0.326N	P=0.486N	P=0.494N	P=0.483N
POLY 1.5	P=0.317N	P=0.495N	P=0.501N	P=0.493N
POLY 6	P=0.341N	P=0.471N	P=0.485N	P=0.468N
LOGISTIC REGRESSION	P=0.318N	P=0.519N	P=0.547N	P=0.520N
COCH-ARM / FISHERS	P=0.309N	P=0.505N	P=0.510N	P=0.505N
ORDER RESTRICTED	P=0.106N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.128N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pancreas  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.83	0/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/22 (5%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	727 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.262N	P=0.413N	P=0.432N	P=0.407N
POLY 3	P=0.324N	P=0.480N	P=0.489N	P=0.481N
POLY 1.5	P=0.314N	P=0.490N	P=0.495N	P=0.491N
POLY 6	P=0.340N	P=0.464N	P=0.478N	P=0.464N
LOGISTIC REGRESSION	P=0.262N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.105N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pancreas: Acinus  
 Atrophy**

**LESION RATES**

OVERALL (a)	23/50 (46%)	21/50 (42%)	25/50 (50%)	23/50 (46%)
POLY-3 RATE (b)	23/45.45	21/46.62	25/45.61	23/46.65
POLY-3 PERCENT (g)	50.6%	45%	54.8%	49.3%
TERMINAL (d)	12/22 (55%)	15/34 (44%)	16/31 (52%)	17/35 (49%)
FIRST INCIDENCE	489	587	603	573

**STATISTICAL TESTS**

LIFE TABLE	P=0.185N	P=0.069N	P=0.314N	P=0.106N
POLY 3	P=0.497	P=0.371N	P=0.422	P=0.534N
POLY 1.5	P=0.466	P=0.403N	P=0.404	P=0.570N
POLY 6	P=0.524N	P=0.306N	P=0.473	P=0.456N
LOGISTIC REGRESSION	P=0.500	P=0.408N	P=0.439	P=0.563N
COCH-ARM / FISHERS	P=0.462	P=0.420N	P=0.421	P=0.579N
ORDER RESTRICTED	P=0.534	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.542	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Pancreas: Acinus  
 Hyperplasia

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/40.83	1/45.16	3/43.21	1/44.90
POLY-3 PERCENT (g)	0%	2.2%	6.9%	2.2%
TERMINAL (d)	0/22 (0%)	1/34 (3%)	3/31 (10%)	0/35 (0%)
FIRST INCIDENCE	---	727 (T)	727 (T)	720

**STATISTICAL TESTS**

LIFE TABLE	P=0.462	P=0.587	P=0.187	P=0.604
POLY 3	P=0.393	P=0.520	P=0.129	P=0.519
POLY 1.5	P=0.370	P=0.510	P=0.123	P=0.509
POLY 6	P=0.432	P=0.536	P=0.139	P=0.536
LOGISTIC REGRESSION	P=0.449	P=0.587	P=0.187	P=0.564
COCH-ARM / FISHERS	P=0.351	P=0.500	P=0.121	P=0.500
ORDER RESTRICTED	P=0.165	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.188	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Pancreas: Duct  
 Cyst

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/45.16	1/43.24	0/44.87
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	720	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.743	(e)	P=0.575	(e)
POLY 3	P=0.720	(e)	P=0.511	(e)
POLY 1.5	P=0.706	(e)	P=0.505	(e)
POLY 6	P=0.741	(e)	P=0.523	(e)
LOGISTIC REGRESSION	P=0.723	(e)	P=0.544	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.392	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.410	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Angiectasis**

**LESION RATES**

OVERALL (a)	15/50 (30%)	16/50 (32%)	19/50 (38%)	14/50 (28%)
POLY-3 RATE (b)	15/43.12	16/46.61	19/46.02	14/44.87
POLY-3 PERCENT (g)	34.8%	34.3%	41.3%	31.2%
TERMINAL (d)	6/22 (27%)	10/34 (29%)	14/31 (45%)	14/35 (40%)
FIRST INCIDENCE	589	589	179	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.148N	P=0.258N	P=0.571N	P=0.113N
POLY 3	P=0.427N	P=0.570N	P=0.338	P=0.447N
POLY 1.5	P=0.447N	P=0.554	P=0.305	P=0.479N
POLY 6	P=0.398N	P=0.491N	P=0.381	P=0.398N
LOGISTIC REGRESSION	P=0.433N	P=0.564	P=0.261	P=0.340N
COCH-ARM / FISHERS	P=0.459N	P=0.500	P=0.263	P=0.500N
ORDER RESTRICTED	P=0.460N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.471N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Cyst**

**LESION RATES**

OVERALL (a)	9/50 (18%)	4/50 (8%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	9/42.49	4/45.48	5/43.70	5/45.31
POLY-3 PERCENT (g)	21.2%	8.8%	11.4%	11%
TERMINAL (d)	3/22 (14%)	2/34 (6%)	3/31 (10%)	4/35 (11%)
FIRST INCIDENCE	582	671	610	601

**STATISTICAL TESTS**

LIFE TABLE	P=0.110N	P=0.042N*	P=0.102N	P=0.072N
POLY 3	P=0.200N	P=0.089N	P=0.174N	P=0.156N
POLY 1.5	P=0.209N	P=0.102N	P=0.186N	P=0.176N
POLY 6	P=0.188N	P=0.071N	P=0.156N	P=0.127N
LOGISTIC REGRESSION	P=0.207N	P=0.114N	P=0.187N	P=0.188N
COCH-ARM / FISHERS	P=0.216N	P=0.117N	P=0.194N	P=0.194N
ORDER RESTRICTED	P=0.101N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.116N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	20/50 (40%)	20/50 (40%)	18/50 (36%)	23/50 (46%)
POLY-3 RATE (b)	20/43.32	20/46.48	18/46.14	23/47.47
POLY-3 PERCENT (g)	46.2%	43%	39%	48.5%
TERMINAL (d)	11/22 (50%)	15/34 (44%)	8/31 (26%)	14/35 (40%)
FIRST INCIDENCE	489	548	483	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.345N	P=0.115N	P=0.153N	P=0.246N
POLY 3	P=0.417	P=0.465N	P=0.316N	P=0.497
POLY 1.5	P=0.355	P=0.525N	P=0.371N	P=0.413
POLY 6	P=0.520	P=0.363N	P=0.239N	P=0.533N
LOGISTIC REGRESSION	P=0.329	P=0.449N	P=0.401N	P=0.401
COCH-ARM / FISHERS	P=0.305	P=0.581N	P=0.418N	P=0.343
ORDER RESTRICTED	P=0.457	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.475	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Pigmentation**

**LESION RATES**

OVERALL (a)	14/50 (28%)	18/50 (36%)	14/50 (28%)	11/50 (22%)
POLY-3 RATE (b)	14/42.29	18/46.53	14/43.21	11/44.87
POLY-3 PERCENT (g)	33.1%	38.7%	32.4%	24.5%
TERMINAL (d)	8/22 (36%)	12/34 (35%)	14/31 (45%)	11/35 (31%)
FIRST INCIDENCE	589	589	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.026N*	P=0.431N	P=0.233N	P=0.049N*
POLY 3	P=0.138N	P=0.371	P=0.565N	P=0.256N
POLY 1.5	P=0.159N	P=0.313	P=0.583N	P=0.292N
POLY 6	P=0.110N	P=0.473	P=0.536N	P=0.203N
LOGISTIC REGRESSION	P=0.079N	P=0.385	P=0.406N	P=0.150N
COCH-ARM / FISHERS	P=0.177N	P=0.260	P=0.588N	P=0.322N
ORDER RESTRICTED	P=0.194N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.212N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Intermedia  
 Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.83	0/45.16	1/43.21	0/44.87
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	1/31 (3%)	0/35 (0%)
FIRST INCIDENCE	---	---	727 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.738	(e)	P=0.568	(e)
POLY 3	P=0.720	(e)	P=0.511	(e)
POLY 1.5	P=0.706	(e)	P=0.505	(e)
POLY 6	P=0.741	(e)	P=0.522	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.568	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.391	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.410	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Intermedia  
 Pigmentation**

**LESION RATES**

OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/41.84	2/45.84	0/43.21	0/44.87
POLY-3 PERCENT (g)	7.2%	4.4%	0%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	489	589	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.033N*	P=0.417N	P=0.108N	P=0.092N
POLY 3	P=0.037N*	P=0.458N	P=0.112N	P=0.106N
POLY 1.5	P=0.038N*	P=0.479N	P=0.117N	P=0.113N
POLY 6	P=0.037N*	P=0.424N	P=0.105N	P=0.095N
LOGISTIC REGRESSION	P=0.036N*	P=0.548N	P=0.108N	P=0.116N
COCH-ARM / FISHERS	P=0.039N*	P=0.500N	P=0.121N	P=0.121N
ORDER RESTRICTED	P=0.031N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.040N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Preputial Gland  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	4/41.36	3/45.16	1/43.21	1/44.87
POLY-3 PERCENT (g)	9.7%	6.6%	2.3%	2.2%
TERMINAL (d)	2/22 (9%)	3/34 (9%)	1/31 (3%)	1/35 (3%)
FIRST INCIDENCE	603	727 (T)	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.047N*	P=0.304N	P=0.111N	P=0.090N
POLY 3	P=0.085N	P=0.452N	P=0.165N	P=0.154N
POLY 1.5	P=0.089N	P=0.476N	P=0.173N	P=0.167N
POLY 6	P=0.079N	P=0.413N	P=0.151N	P=0.134N
LOGISTIC REGRESSION	P=0.071N	P=0.424N	P=0.161N	P=0.156N
COCH-ARM / FISHERS	P=0.092N	P=0.500N	P=0.181N	P=0.181N
ORDER RESTRICTED	P=0.092N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.107N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Preputial Gland  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	43/50 (86%)	46/50 (92%)	44/50 (88%)	46/50 (92%)
POLY-3 RATE (b)	43/47.36	46/49.22	44/46.98	46/48.10
POLY-3 PERCENT (g)	90.8%	93.5%	93.7%	95.6%
TERMINAL (d)	21/22 (96%)	32/34 (94%)	30/31 (97%)	34/35 (97%)
FIRST INCIDENCE	517	366	591	533

**STATISTICAL TESTS**

LIFE TABLE	P=0.038N*	P=0.032N*	P=0.071N	P=0.019N*
POLY 3	P=0.217	P=0.452	P=0.438	P=0.273
POLY 1.5	P=0.196	P=0.354	P=0.422	P=0.222
POLY 6	P=0.328	P=0.615	P=0.520	P=0.442
LOGISTIC REGRESSION	P=0.292	P=0.338	P=0.635	P=0.323
COCH-ARM / FISHERS	P=0.279	P=0.262	P=0.500	P=0.262
ORDER RESTRICTED	P=0.228	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.236	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Preputial Gland: Duct  
 Ectasia

**LESION RATES**

OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/41.36	2/45.16	2/43.21	2/45.31
POLY-3 PERCENT (g)	7.3%	4.4%	4.6%	4.4%
TERMINAL (d)	1/22 (5%)	2/34 (6%)	2/31 (7%)	1/35 (3%)
FIRST INCIDENCE	603	727 (T)	727 (T)	601

**STATISTICAL TESTS**

LIFE TABLE	P=0.315N	P=0.344N	P=0.376N	P=0.369N
POLY 3	P=0.412N	P=0.460N	P=0.480N	P=0.459N
POLY 1.5	P=0.423N	P=0.480N	P=0.492N	P=0.480N
POLY 6	P=0.395N	P=0.428N	P=0.460N	P=0.422N
LOGISTIC REGRESSION	P=0.418N	P=0.467N	P=0.474N	P=0.511N
COCH-ARM / FISHERS	P=0.431N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.440N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.458N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Prostate  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	22/50 (44%)	27/50 (54%)	36/50 (72%)	30/50 (60%)
POLY-3 RATE (b)	22/45.57	27/48.15	36/47.22	30/48.54
POLY-3 PERCENT (g)	48.3%	56.1%	76.2%	61.8%
TERMINAL (d)	10/22 (46%)	15/34 (44%)	23/31 (74%)	22/35 (63%)
FIRST INCIDENCE	517	366	483	301

**STATISTICAL TESTS**

LIFE TABLE	P=0.484	P=0.383N	P=0.157	P=0.521N
POLY 3	P=0.084	P=0.289	P=0.003**	P=0.128
POLY 1.5	P=0.067	P=0.248	P=0.003**	P=0.104
POLY 6	P=0.116	P=0.372	P=0.005**	P=0.174
LOGISTIC REGRESSION	P=0.051	P=0.173	P=0.005**	P=0.057
COCH-ARM / FISHERS	P=0.053	P=0.212	P=0.004**	P=0.080
ORDER RESTRICTED	P=0.024*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Prostate: Epithelium  
 Hyperplasia

**LESION RATES**

OVERALL (a)	10/50 (20%)	13/50 (26%)	14/50 (28%)	17/50 (34%)
POLY-3 RATE (b)	10/41.89	13/45.84	14/44.27	17/44.87
POLY-3 PERCENT (g)	23.9%	28.4%	31.6%	37.9%
TERMINAL (d)	7/22 (32%)	11/34 (32%)	12/31 (39%)	17/35 (49%)
FIRST INCIDENCE	532	589	490	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.305	P=0.474N	P=0.535	P=0.470
POLY 3	P=0.088	P=0.407	P=0.285	P=0.116
POLY 1.5	P=0.078	P=0.361	P=0.259	P=0.097
POLY 6	P=0.109	P=0.488	P=0.331	P=0.157
LOGISTIC REGRESSION	P=0.130	P=0.449	P=0.300	P=0.247
COCH-ARM / FISHERS	P=0.073	P=0.318	P=0.241	P=0.088
ORDER RESTRICTED	P=0.120	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.136	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Prostate: Epithelium  
 Hypertrophy

**LESION RATES**

OVERALL (a)	14/50 (28%)	14/50 (28%)	21/50 (42%)	17/50 (34%)
POLY-3 RATE (b)	14/43.38	14/45.76	21/45.40	17/45.71
POLY-3 PERCENT (g)	32.3%	30.6%	46.3%	37.2%
TERMINAL (d)	6/22 (27%)	10/34 (29%)	12/31 (39%)	13/35 (37%)
FIRST INCIDENCE	489	654	603	601

**STATISTICAL TESTS**

LIFE TABLE	P=0.484N	P=0.209N	P=0.374	P=0.372N
POLY 3	P=0.264	P=0.523N	P=0.124	P=0.395
POLY 1.5	P=0.236	P=0.558N	P=0.108	P=0.357
POLY 6	P=0.318	P=0.460N	P=0.161	P=0.468
LOGISTIC REGRESSION	P=0.271	P=0.526N	P=0.116	P=0.396
COCH-ARM / FISHERS	P=0.223	P=0.588N	P=0.104	P=0.333
ORDER RESTRICTED	P=0.246	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.260	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Spleen  
 Hematopoietic Cell Proliferation**

**LESION RATES**

OVERALL (a)	5/50 (10%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	5/42.08	0/45.16	0/43.21	2/45.14
POLY-3 PERCENT (g)	11.9%	0%	0%	4.4%
TERMINAL (d)	1/22 (5%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	532	---	---	664

**STATISTICAL TESTS**

LIFE TABLE	P=0.150N	P=0.018N*	P=0.024N*	P=0.125N
POLY 3	P=0.206N	P=0.025N*	P=0.028N*	P=0.188N
POLY 1.5	P=0.201N	P=0.028N*	P=0.030N*	P=0.204N
POLY 6	P=0.216N	P=0.021N*	P=0.025N*	P=0.163N
LOGISTIC REGRESSION	P=0.204N	P=0.040N*	P=0.033N*	P=0.230N
COCH-ARM / FISHERS	P=0.199N	P=0.028N*	P=0.028N*	P=0.218N
ORDER RESTRICTED	P=0.008N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Stomach, Forestomach  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	4/50 (8%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/41.98	0/45.16	1/43.42	0/44.87
POLY-3 PERCENT (g)	9.5%	0%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	616	---	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.032N*	P=0.045N*	P=0.159N	P=0.045N*
POLY 3	P=0.039N*	P=0.051N	P=0.168N	P=0.052N
POLY 1.5	P=0.038N*	P=0.056N	P=0.175N	P=0.056N
POLY 6	P=0.040N*	P=0.045N*	P=0.157N	P=0.045N*
LOGISTIC REGRESSION	P=0.040N*	P=0.073N	P=0.180N	P=0.067N
COCH-ARM / FISHERS	P=0.039N*	P=0.059N	P=0.181N	P=0.059N
ORDER RESTRICTED	P=0.004N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.007N**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Forestomach: Epithelium  
 Hyperplasia

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.23	1/45.16	0/43.21	0/44.87
POLY-3 PERCENT (g)	4.9%	2.2%	0%	0%
TERMINAL (d)	0/22 (0%)	1/34 (3%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	674	727 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.078N	P=0.393N	P=0.219N	P=0.186N
POLY 3	P=0.101N	P=0.468N	P=0.227N	P=0.219N
POLY 1.5	P=0.101N	P=0.484N	P=0.233N	P=0.228N
POLY 6	P=0.101N	P=0.443N	P=0.217N	P=0.203N
LOGISTIC REGRESSION	P=0.098N	P=0.487N	P=0.238N	P=0.241N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.063N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.078N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Forestomach: Epithelium  
 Ulcer

**LESION RATES**

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/41.78	0/45.16	1/43.42	0/44.87
POLY-3 PERCENT (g)	7.2%	0%	2.3%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	616	---	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.074N	P=0.097N	P=0.277N	P=0.098N
POLY 3	P=0.087N	P=0.105N	P=0.291N	P=0.106N
POLY 1.5	P=0.086N	P=0.112N	P=0.300N	P=0.113N
POLY 6	P=0.090N	P=0.095N	P=0.277N	P=0.096N
LOGISTIC REGRESSION	P=0.086N	P=0.135N	P=0.303N	P=0.124N
COCH-ARM / FISHERS	P=0.086N	P=0.121N	P=0.309N	P=0.121N
ORDER RESTRICTED	P=0.016N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.023N*	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Glandular: Epithelium  
 Erosion

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/41.03	2/45.32	2/43.45	0/44.87
POLY-3 PERCENT (g)	2.4%	4.4%	4.6%	0%
TERMINAL (d)	0/22 (0%)	0/34 (0%)	0/31 (0%)	0/35 (0%)
FIRST INCIDENCE	674	692	671	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.226N	P=0.624	P=0.573	P=0.451N
POLY 3	P=0.269N	P=0.535	P=0.520	P=0.482N
POLY 1.5	P=0.283N	P=0.517	P=0.508	P=0.492N
POLY 6	P=0.246N	P=0.562	P=0.539	P=0.466N
LOGISTIC REGRESSION	P=0.288N	P=0.521	P=0.508	P=0.504N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.230N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.252N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006  
 Time Report Requested: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Testes  
 Mineralization**

**LESION RATES**

OVERALL (a)	32/50 (64%)	34/50 (68%)	30/50 (60%)	24/50 (48%)
POLY-3 RATE (b)	32/44.97	34/46.85	30/44.98	24/44.96
POLY-3 PERCENT (g)	71.2%	72.6%	66.7%	53.4%
TERMINAL (d)	18/22 (82%)	26/34 (77%)	23/31 (74%)	23/35 (66%)
FIRST INCIDENCE	519	366	591	706

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P=0.048N*	P=0.043N*	P<0.001N**
POLY 3	P=0.022N*	P=0.534	P=0.404N	P=0.054N
POLY 1.5	P=0.028N*	P=0.474	P=0.429N	P=0.068N
POLY 6	P=0.014N*	P=0.572N	P=0.356N	P=0.035N*
LOGISTIC REGRESSION	P=0.005N**	P=0.544N	P=0.260N	P=0.013N*
COCH-ARM / FISHERS	P=0.032N*	P=0.417	P=0.418N	P=0.079N
ORDER RESTRICTED	P=0.036N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Testes: Germinal Epithelium  
 Degeneration

**LESION RATES**

OVERALL (a)	5/50 (10%)	7/50 (14%)	8/50 (16%)	5/50 (10%)
POLY-3 RATE (b)	5/41.87	7/45.16	8/43.42	5/45.11
POLY-3 PERCENT (g)	11.9%	15.5%	18.4%	11.1%
TERMINAL (d)	1/22 (5%)	7/34 (21%)	7/31 (23%)	3/35 (9%)
FIRST INCIDENCE	603	727 (T)	672	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.291N	P=0.602N	P=0.463	P=0.405N
POLY 3	P=0.463N	P=0.433	P=0.297	P=0.583N
POLY 1.5	P=0.491N	P=0.406	P=0.284	P=0.609N
POLY 6	P=0.416N	P=0.477	P=0.321	P=0.539N
LOGISTIC REGRESSION	P=0.423N	P=0.462	P=0.324	P=0.607N
COCH-ARM / FISHERS	P=0.514N	P=0.380	P=0.277	P=0.630N
ORDER RESTRICTED	P=0.454N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.469N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Testes: Interstitial Cell  
 Hyperplasia

**LESION RATES**

OVERALL (a)	10/50 (20%)	11/50 (22%)	10/50 (20%)	5/50 (10%)
POLY-3 RATE (b)	10/44.26	11/46.92	10/44.33	5/45.62
POLY-3 PERCENT (g)	22.6%	23.4%	22.6%	11%
TERMINAL (d)	2/22 (9%)	7/34 (21%)	8/31 (26%)	2/35 (6%)
FIRST INCIDENCE	489	366	483	573

**STATISTICAL TESTS**

LIFE TABLE	P=0.034N*	P=0.437N	P=0.407N	P=0.065N
POLY 3	P=0.077N	P=0.560	P=0.599N	P=0.114N
POLY 1.5	P=0.084N	P=0.531	P=0.593	P=0.125N
POLY 6	P=0.064N	P=0.588N	P=0.585N	P=0.095N
LOGISTIC REGRESSION	P=0.094N	P=0.354	P=0.584	P=0.157N
COCH-ARM / FISHERS	P=0.086N	P=0.500	P=0.598N	P=0.131N
ORDER RESTRICTED	P=0.115N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.121N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Thymus  
 Ectopic Parathyroid Gland

**LESION RATES**

OVERALL (a)	0/48 (0%)	0/47 (0%)	1/49 (2%)	1/46 (2%)
POLY-3 RATE (b)	0/39.38	0/42.48	1/42.34	1/41.90
POLY-3 PERCENT (g)	0%	0%	2.4%	2.4%
TERMINAL (d)	0/22 (0%)	0/33 (0%)	1/31 (3%)	0/33 (0%)
FIRST INCIDENCE	---	---	727 (T)	692

**STATISTICAL TESTS**

LIFE TABLE	P=0.277	(e)	P=0.568	P=0.564
POLY 3	P=0.249	(e)	P=0.514	P=0.512
POLY 1.5	P=0.239	(e)	P=0.508	P=0.501
POLY 6	P=0.267	(e)	P=0.524	P=0.530
LOGISTIC REGRESSION	P=0.244	(e)	P=0.568	P=0.498
COCH-ARM / FISHERS	P=0.228	(e)	P=0.505	P=0.489
ORDER RESTRICTED	P=0.263	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland  
 Ultimobranchial Cyst**

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/49 (0%)	1/48 (2%)	1/48 (2%)
POLY-3 RATE (b)	2/40.83	0/44.21	1/41.88	1/43.85
POLY-3 PERCENT (g)	4.9%	0%	2.4%	2.3%
TERMINAL (d)	2/22 (9%)	0/34 (0%)	1/31 (3%)	1/35 (3%)
FIRST INCIDENCE	727 (T)	---	727 (T)	727 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.399N	P=0.148N	P=0.380N	P=0.340N
POLY 3	P=0.513N	P=0.220N	P=0.491N	P=0.475N
POLY 1.5	P=0.512N	P=0.231N	P=0.504N	P=0.494N
POLY 6	P=0.516N	P=0.203N	P=0.469N	P=0.445N
LOGISTIC REGRESSION	P=0.399N	(e)	P=0.380N	P=0.340N
COCH-ARM / FISHERS	P=0.512N	P=0.253N	P=0.515N	P=0.515N
ORDER RESTRICTED	P=0.247N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.270N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland: C-Cell  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	11/50 (22%)	17/49 (35%)	8/48 (17%)	11/48 (23%)
POLY-3 RATE (b)	11/42.46	17/46.27	8/41.99	11/44.26
POLY-3 PERCENT (g)	25.9%	36.7%	19.1%	24.9%
TERMINAL (d)	5/22 (23%)	11/34 (32%)	6/31 (19%)	9/35 (26%)
FIRST INCIDENCE	519	366	707	673

**STATISTICAL TESTS**

LIFE TABLE	P=0.105N	P=0.477	P=0.133N	P=0.232N
POLY 3	P=0.289N	P=0.191	P=0.310N	P=0.554N
POLY 1.5	P=0.324N	P=0.154	P=0.330N	P=0.596N
POLY 6	P=0.241N	P=0.258	P=0.278N	P=0.484N
LOGISTIC REGRESSION	P=0.305N	P=0.119	P=0.268N	P=0.537N
COCH-ARM / FISHERS	P=0.358N	P=0.119	P=0.341N	P=0.553
ORDER RESTRICTED	P=0.249N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.266N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Males			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland: Follicle  
 Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	4/49 (8%)	1/48 (2%)	3/48 (6%)
POLY-3 RATE (b)	0/40.83	4/44.21	1/42.02	3/44.30
POLY-3 PERCENT (g)	0%	9.1%	2.4%	6.8%
TERMINAL (d)	0/22 (0%)	4/34 (12%)	0/31 (0%)	2/35 (6%)
FIRST INCIDENCE	---	727 (T)	693	594

**STATISTICAL TESTS**

LIFE TABLE	P=0.335	P=0.130	P=0.532	P=0.188
POLY 3	P=0.271	P=0.071	P=0.506	P=0.134
POLY 1.5	P=0.244	P=0.064	P=0.498	P=0.123
POLY 6	P=0.315	P=0.083	P=0.519	P=0.153
LOGISTIC REGRESSION	P=0.248	P=0.130	P=0.500	P=0.108
COCH-ARM / FISHERS	P=0.219	P=0.056	P=0.490	P=0.114
ORDER RESTRICTED	P=0.105	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.127	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Accessory Adrenal Cortical Nodule**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	0/42.43	1/37.18	2/42.14
POLY-3 PERCENT (g)	0%	0%	2.7%	4.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	1/27 (4%)	2/30 (7%)
FIRST INCIDENCE	---	---	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.066	(e)	P=0.472	P=0.231
POLY 3	P=0.068	(e)	P=0.472	P=0.234
POLY 1.5	P=0.067	(e)	P=0.481	P=0.231
POLY 6	P=0.070	(e)	P=0.465	P=0.237
LOGISTIC REGRESSION	(e)	(e)	P=0.472	P=0.231
COCH-ARM / FISHERS	P=0.068	(e)	P=0.500	P=0.242
ORDER RESTRICTED	P=0.072	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.076	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hematopoietic Cell Proliferation**

**LESION RATES**

OVERALL (a)	7/50 (14%)	14/50 (28%)	9/50 (18%)	7/49 (14%)
POLY-3 RATE (b)	7/43.26	14/42.68	9/37.80	7/42.63
POLY-3 PERCENT (g)	16.2%	32.8%	23.8%	16.4%
TERMINAL (d)	4/31 (13%)	13/32 (41%)	8/27 (30%)	5/30 (17%)
FIRST INCIDENCE	663	662	531	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.365N	P=0.075	P=0.274	P=0.598
POLY 3	P=0.341N	P=0.058	P=0.281	P=0.603
POLY 1.5	P=0.353N	P=0.065	P=0.316	P=0.594
POLY 6	P=0.325N	P=0.049*	P=0.250	P=0.612
LOGISTIC REGRESSION	P=0.332N	P=0.053	P=0.264	P=0.604
COCH-ARM / FISHERS	P=0.340N	P=0.070	P=0.393	P=0.597
ORDER RESTRICTED	P=0.276	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.281	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	12/50 (24%)	14/50 (28%)	13/50 (26%)	4/49 (8%)
POLY-3 RATE (b)	12/43.81	14/42.80	13/37.82	4/42.17
POLY-3 PERCENT (g)	27.4%	32.7%	34.4%	9.5%
TERMINAL (d)	9/31 (29%)	13/32 (41%)	12/27 (44%)	3/30 (10%)
FIRST INCIDENCE	455	625	517	719

**STATISTICAL TESTS**

LIFE TABLE	P=0.022N*	P=0.433	P=0.334	P=0.035N*
POLY 3	P=0.017N*	P=0.379	P=0.329	P=0.029N*
POLY 1.5	P=0.019N*	P=0.399	P=0.384	P=0.030N*
POLY 6	P=0.015N*	P=0.351	P=0.283	P=0.028N*
LOGISTIC REGRESSION	P=0.018N*	P=0.386	P=0.322	P=0.029N*
COCH-ARM / FISHERS	P=0.019N*	P=0.410	P=0.500	P=0.030N*
ORDER RESTRICTED	P=0.010N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.013N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Hypertrophy**

**LESION RATES**

OVERALL (a)	5/50 (10%)	5/50 (10%)	1/50 (2%)	3/49 (6%)
POLY-3 RATE (b)	5/42.74	5/42.43	1/37.18	3/42.55
POLY-3 PERCENT (g)	11.7%	11.8%	2.7%	7.1%
TERMINAL (d)	5/31 (16%)	5/32 (16%)	1/27 (4%)	2/30 (7%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	609

**STATISTICAL TESTS**

LIFE TABLE	P=0.223N	P=0.613N	P=0.134N	P=0.372N
POLY 3	P=0.211N	P=0.627	P=0.136N	P=0.358N
POLY 1.5	P=0.214N	P=0.629N	P=0.124N	P=0.368N
POLY 6	P=0.203N	P=0.616	P=0.146N	P=0.346N
LOGISTIC REGRESSION	P=0.203N	P=0.613N	P=0.134N	P=0.358N
COCH-ARM / FISHERS	P=0.207N	P=0.630N	P=0.102N	P=0.369N
ORDER RESTRICTED	P=0.201N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.206N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Cortex  
 Vacuolization Cytoplasmic**

**LESION RATES**

OVERALL (a)	22/50 (44%)	25/50 (50%)	16/50 (32%)	20/49 (41%)
POLY-3 RATE (b)	22/44.85	25/45.03	16/38.48	20/43.30
POLY-3 PERCENT (g)	49.1%	55.5%	41.6%	46.2%
TERMINAL (d)	14/31 (45%)	20/32 (63%)	12/27 (44%)	14/30 (47%)
FIRST INCIDENCE	474	489	517	550

**STATISTICAL TESTS**

LIFE TABLE	P=0.324N	P=0.379	P=0.347N	P=0.480N
POLY 3	P=0.312N	P=0.340	P=0.320N	P=0.478N
POLY 1.5	P=0.313N	P=0.353	P=0.254N	P=0.483N
POLY 6	P=0.303N	P=0.314	P=0.382N	P=0.471N
LOGISTIC REGRESSION	P=0.276N	P=0.341	P=0.306N	P=0.449N
COCH-ARM / FISHERS	P=0.269N	P=0.344	P=0.151N	P=0.453N
ORDER RESTRICTED	P=0.333N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.344N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Medulla  
 Fibrosis**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	0/42.14
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Medulla  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	4/49 (8%)
POLY-3 RATE (b)	4/43.06	3/42.61	2/38.09	4/42.90
POLY-3 PERCENT (g)	9.3%	7%	5.3%	9.3%
TERMINAL (d)	1/31 (3%)	2/32 (6%)	0/27 (0%)	2/30 (7%)
FIRST INCIDENCE	663	680	589	479

**STATISTICAL TESTS**

LIFE TABLE	P=0.537	P=0.517N	P=0.438N	P=0.618
POLY 3	P=0.549	P=0.506N	P=0.395N	P=0.642
POLY 1.5	P=0.541	P=0.500N	P=0.377N	P=0.633
POLY 6	P=0.559	P=0.517N	P=0.408N	P=0.639N
LOGISTIC REGRESSION	P=0.542	P=0.509N	P=0.356N	P=0.631
COCH-ARM / FISHERS	P=0.547	P=0.500N	P=0.339N	P=0.631
ORDER RESTRICTED	P=0.563	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.567	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Adrenal Medulla  
 Infiltration Cellular Lymphoid**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	2/42.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	2/30 (7%)
FIRST INCIDENCE	---	---	---	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.045*	(e)	(e)	P=0.231
POLY 3	P=0.043*	(e)	(e)	P=0.234
POLY 1.5	P=0.043*	(e)	(e)	P=0.231
POLY 6	P=0.044*	(e)	(e)	P=0.237
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.231
COCH-ARM / FISHERS	P=0.045*	(e)	(e)	P=0.242
ORDER RESTRICTED	P=0.028*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Bone Marrow  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	9/50 (18%)	9/50 (18%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	9/44.61	9/44.43	10/39.64	8/44.10
POLY-3 PERCENT (g)	20.2%	20.3%	25.2%	18.1%
TERMINAL (d)	4/31 (13%)	5/32 (16%)	4/27 (15%)	5/30 (17%)
FIRST INCIDENCE	474	489	517	550

**STATISTICAL TESTS**

LIFE TABLE	P=0.490N	P=0.592N	P=0.352	P=0.524N
POLY 3	P=0.472N	P=0.600	P=0.385	P=0.510N
POLY 1.5	P=0.476N	P=0.600N	P=0.419	P=0.514N
POLY 6	P=0.464N	P=0.587	P=0.363	P=0.507N
LOGISTIC REGRESSION	P=0.449N	P=0.592	P=0.495	P=0.500N
COCH-ARM / FISHERS	P=0.450N	P=0.602N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.527N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.533N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Compression**

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/43.01	1/42.57	2/37.53	4/43.61
POLY-3 PERCENT (g)	4.7%	2.4%	5.3%	9.2%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	656	692	642	633

**STATISTICAL TESTS**

LIFE TABLE	P=0.175	P=0.516N	P=0.617	P=0.343
POLY 3	P=0.165	P=0.504N	P=0.644	P=0.343
POLY 1.5	P=0.161	P=0.500N	P=0.660	P=0.337
POLY 6	P=0.172	P=0.510N	P=0.632	P=0.352
LOGISTIC REGRESSION	P=0.163	P=0.500N	P=0.663	P=0.336
COCH-ARM / FISHERS	P=0.164	P=0.500N	P=0.691N	P=0.339
ORDER RESTRICTED	P=0.183	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.192	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Hemorrhage**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.78	0/42.43	0/37.18	0/43.08
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	719	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.321N	P=0.518N	P=0.545N	P=0.518N
POLY 3	P=0.313N	P=0.502N	P=0.528N	P=0.499N
POLY 1.5	P=0.311N	P=0.500N	P=0.519N	P=0.501N
POLY 6	P=0.314N	P=0.505N	P=0.535N	P=0.496N
LOGISTIC REGRESSION	P=0.308N	P=0.507N	P=0.536N	P=0.495N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.119N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Brain  
 Hydrocephalus**

**LESION RATES**

OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.01	3/42.57	1/37.22	1/43.13
POLY-3 PERCENT (g)	4.7%	7.1%	2.7%	2.3%
TERMINAL (d)	1/31 (3%)	2/32 (6%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	656	692	719	716

**STATISTICAL TESTS**

LIFE TABLE	P=0.295N	P=0.494	P=0.568N	P=0.508N
POLY 3	P=0.286N	P=0.495	P=0.550N	P=0.499N
POLY 1.5	P=0.288N	P=0.500	P=0.534N	P=0.502N
POLY 6	P=0.284N	P=0.487	P=0.564N	P=0.496N
LOGISTIC REGRESSION	P=0.281N	P=0.494	P=0.549N	P=0.500N
COCH-ARM / FISHERS	P=0.279N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.324N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.331N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Clitoral Gland  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	10/50 (20%)	14/50 (28%)	10/50 (20%)	9/50 (18%)
POLY-3 RATE (b)	10/42.98	14/43.56	10/38.27	9/43.14
POLY-3 PERCENT (g)	23.3%	32.1%	26.1%	20.9%
TERMINAL (d)	9/31 (29%)	11/32 (34%)	8/27 (30%)	8/30 (27%)
FIRST INCIDENCE	665	572	531	713

**STATISTICAL TESTS**

LIFE TABLE	P=0.356N	P=0.260	P=0.453	P=0.524N
POLY 3	P=0.317N	P=0.246	P=0.483	P=0.496N
POLY 1.5	P=0.327N	P=0.249	P=0.519	P=0.506N
POLY 6	P=0.304N	P=0.240	P=0.458	P=0.486N
LOGISTIC REGRESSION	P=0.302N	P=0.217	P=0.438	P=0.469N
COCH-ARM / FISHERS	P=0.310N	P=0.241	P=0.598N	P=0.500N
ORDER RESTRICTED	P=0.362N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.368N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Clitoral Gland  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	12/50 (24%)	26/50 (52%)	18/50 (36%)	10/50 (20%)
POLY-3 RATE (b)	12/43.65	26/43.89	18/39.23	10/43.12
POLY-3 PERCENT (g)	27.5%	59.2%	45.9%	23.2%
TERMINAL (d)	8/31 (26%)	22/32 (69%)	13/27 (48%)	9/30 (30%)
FIRST INCIDENCE	554	572	422	719

**STATISTICAL TESTS**

LIFE TABLE	P=0.141N	P=0.005**	P=0.061	P=0.444N
POLY 3	P=0.097N	P=0.002**	P=0.061	P=0.415N
POLY 1.5	P=0.104N	P=0.002**	P=0.081	P=0.419N
POLY 6	P=0.091N	P<0.001**	P=0.048*	P=0.414N
LOGISTIC REGRESSION	P=0.096N	P=0.002**	P=0.060	P=0.381N
COCH-ARM / FISHERS	P=0.102N	P=0.004**	P=0.138	P=0.405N
ORDER RESTRICTED	P=0.021N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.025N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Clitoral Gland: Bilateral  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/42.74	1/42.43	3/37.18	1/43.08
POLY-3 PERCENT (g)	0%	2.4%	8.1%	2.3%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	3/27 (11%)	1/30 (3%)
FIRST INCIDENCE	---	728 (T)	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.333	P=0.506	P=0.097	P=0.493
POLY 3	P=0.360	P=0.499	P=0.095	P=0.502
POLY 1.5	P=0.351	P=0.500	P=0.102	P=0.499
POLY 6	P=0.371	P=0.495	P=0.090	P=0.504
LOGISTIC REGRESSION (e)		P=0.506	P=0.097	P=0.493
COCH-ARM / FISHERS	P=0.351	P=0.500	P=0.121	P=0.500
ORDER RESTRICTED	P=0.130	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.136	(e)	(e)	(e)

TDMS No. 95011-07  
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 Species/Strain: RATS/F 344

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Clitoral Gland: Duct  
 Cyst

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/43.30	1/42.43	1/37.54	2/43.55
POLY-3 PERCENT (g)	2.3%	2.4%	2.7%	4.6%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	554	728 (T)	627	609

**STATISTICAL TESTS**

LIFE TABLE	P=0.347	P=0.757N	P=0.711	P=0.491
POLY 3	P=0.353	P=0.756	P=0.728	P=0.502
POLY 1.5	P=0.348	P=0.759	P=0.739	P=0.498
POLY 6	P=0.360	P=0.751	P=0.720	P=0.507
LOGISTIC REGRESSION	P=0.357	P=0.754	P=0.729N	P=0.516
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.417	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.423	(e)	(e)	(e)



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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Eye: Lens  
 Cataract

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.74	1/42.43	1/37.18	1/43.08
POLY-3 PERCENT (g)	4.7%	2.4%	2.7%	2.3%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	1/27 (4%)	1/30 (3%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.429N	P=0.489N	P=0.549N	P=0.512N
POLY 3	P=0.414N	P=0.503N	P=0.548N	P=0.497N
POLY 1.5	P=0.416N	P=0.499N	P=0.533N	P=0.501N
POLY 6	P=0.409N	P=0.509N	P=0.561N	P=0.492N
LOGISTIC REGRESSION	P=0.429N	P=0.489N	P=0.549N	P=0.512N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.411N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.417N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Eye: Retina  
 Degeneration

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.74	1/42.43	1/37.18	1/43.08
POLY-3 PERCENT (g)	4.7%	2.4%	2.7%	2.3%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	1/27 (4%)	1/30 (3%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.429N	P=0.489N	P=0.549N	P=0.512N
POLY 3	P=0.414N	P=0.503N	P=0.548N	P=0.497N
POLY 1.5	P=0.416N	P=0.499N	P=0.533N	P=0.501N
POLY 6	P=0.409N	P=0.509N	P=0.561N	P=0.492N
LOGISTIC REGRESSION	P=0.429N	P=0.489N	P=0.549N	P=0.512N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.411N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.417N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Harderian Gland  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	12/50 (24%)	12/50 (24%)	18/49 (37%)	15/50 (30%)
POLY-3 RATE (b)	12/44.63	12/43.89	18/41.62	15/44.27
POLY-3 PERCENT (g)	26.9%	27.3%	43.3%	33.9%
TERMINAL (d)	7/31 (23%)	10/32 (31%)	9/27 (33%)	13/30 (43%)
FIRST INCIDENCE	198	449	438	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.190	P=0.576N	P=0.076	P=0.296
POLY 3	P=0.203	P=0.576	P=0.082	P=0.313
POLY 1.5	P=0.193	P=0.586	P=0.086	P=0.305
POLY 6	P=0.219	P=0.553	P=0.087	P=0.320
LOGISTIC REGRESSION	P=0.217	P=0.589	P=0.135	P=0.323
COCH-ARM / FISHERS	P=0.219	P=0.592N	P=0.123	P=0.326
ORDER RESTRICTED	P=0.183	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.192	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Heart  
 Cardiomyopathy**

**LESION RATES**

OVERALL (a)	47/50 (94%)	49/50 (98%)	46/50 (92%)	47/50 (94%)
POLY-3 RATE (b)	47/49.41	49/49.30	46/48.32	47/48.66
POLY-3 PERCENT (g)	95.1%	99.4%	95.2%	96.6%
TERMINAL (d)	30/31 (97%)	32/32 (100%)	27/27 (100%)	29/30 (97%)
FIRST INCIDENCE	198	449	55	190

**STATISTICAL TESTS**

LIFE TABLE	P=0.461	P=0.466	P=0.214	P=0.500
POLY 3	P=0.606	P=0.227	P=0.686	P=0.561
POLY 1.5	P=0.583	P=0.251	P=0.652N	P=0.541
POLY 6	P=0.620	P=0.225	P=0.678	P=0.576
LOGISTIC REGRESSION	P=0.541N	P=0.332	P=0.585N	P=0.611
COCH-ARM / FISHERS	P=0.438N	P=0.309	P=0.500N	P=0.661N
ORDER RESTRICTED	P=0.446	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.454	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

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DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

---

Heart: Atrium  
 Fibrosis

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	0/43.08
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

---

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Heart: Atrium  
 Thrombosis

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.71	0/42.43	0/37.18	1/43.12
POLY-3 PERCENT (g)	4.6%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	474	---	---	719

**STATISTICAL TESTS**

LIFE TABLE	P=0.470N	P=0.246N	P=0.275N	P=0.510N
POLY 3	P=0.468N	P=0.244N	P=0.275N	P=0.505N
POLY 1.5	P=0.467N	P=0.240N	P=0.262N	P=0.506N
POLY 6	P=0.465N	P=0.250N	P=0.287N	P=0.504N
LOGISTIC REGRESSION	P=0.442N	P=0.281N	P=0.179N	P=0.481N
COCH-ARM / FISHERS	P=0.461N	P=0.247N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.138N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.145N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Intestine Large, Colon  
 Parasite Metazoan

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	4/49 (8%)
POLY-3 RATE (b)	1/42.87	0/42.43	1/37.97	4/42.58
POLY-3 PERCENT (g)	2.3%	0%	2.6%	9.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	695	---	438	662

**STATISTICAL TESTS**

LIFE TABLE	P=0.043*	P=0.523N	P=0.730	P=0.198
POLY 3	P=0.031*	P=0.502N	P=0.733	P=0.176
POLY 1.5	P=0.030*	P=0.500N	P=0.742	P=0.172
POLY 6	P=0.033*	P=0.506N	P=0.726	P=0.182
LOGISTIC REGRESSION	P=0.033*	P=0.500N	P=0.715N	P=0.173
COCH-ARM / FISHERS	P=0.032*	P=0.500N	P=0.753N	P=0.175
ORDER RESTRICTED	P=0.025*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.028*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Intestine Large, Rectum  
 Parasite Metazoan

**LESION RATES**

OVERALL (a)	3/50 (6%)	6/49 (12%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	3/42.74	6/42.40	3/37.18	3/43.18
POLY-3 PERCENT (g)	7%	14.2%	8.1%	7%
TERMINAL (d)	3/31 (10%)	5/32 (16%)	3/27 (11%)	1/30 (3%)
FIRST INCIDENCE	728 (T)	653	728 (T)	713

**STATISTICAL TESTS**

LIFE TABLE	P=0.439N	P=0.252	P=0.599	P=0.648
POLY 3	P=0.411N	P=0.236	P=0.597	P=0.658N
POLY 1.5	P=0.417N	P=0.238	P=0.618	P=0.661
POLY 6	P=0.402N	P=0.232	P=0.579	P=0.651N
LOGISTIC REGRESSION	P=0.397N	P=0.221	P=0.599	P=0.651N
COCH-ARM / FISHERS	P=0.406N	P=0.233	P=0.661N	P=0.661N
ORDER RESTRICTED	P=0.437N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.445N	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Islets, Pancreatic  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	0/42.14
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Infarct**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/42.74	0/42.43	1/37.18	0/42.14
POLY-3 PERCENT (g)	2.3%	0%	2.7%	0%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	728 (T)	---	728 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.418N	P=0.494N	P=0.731	P=0.507N
POLY 3	P=0.410N	P=0.501N	P=0.729	P=0.503N
POLY 1.5	P=0.413N	P=0.500N	P=0.739	P=0.505N
POLY 6	P=0.406N	P=0.505N	P=0.720	P=0.500N
LOGISTIC REGRESSION	P=0.418N	(e)	P=0.731	(e)
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.753N	P=0.505N
ORDER RESTRICTED	P=0.254N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.258N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Mineralization**

**LESION RATES**

OVERALL (a)	28/50 (56%)	17/50 (34%)	19/50 (38%)	25/49 (51%)
POLY-3 RATE (b)	28/46.07	17/44.44	19/42.25	25/45.87
POLY-3 PERCENT (g)	60.8%	38.3%	45%	54.5%
TERMINAL (d)	20/31 (65%)	11/32 (34%)	9/27 (33%)	14/30 (47%)
FIRST INCIDENCE	198	572	418	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.499	P=0.030N*	P=0.208N	P=0.402N
POLY 3	P=0.514N	P=0.022N*	P=0.095N	P=0.344N
POLY 1.5	P=0.524	P=0.021N*	P=0.085N	P=0.387N
POLY 6	P=0.458N	P=0.025N*	P=0.102N	P=0.294N
LOGISTIC REGRESSION	P=0.514	P=0.021N*	P=0.067N	P=0.390N
COCH-ARM / FISHERS	P=0.529	P=0.022N*	P=0.054N	P=0.384N
ORDER RESTRICTED	P=0.106N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney  
 Nephropathy**

**LESION RATES**

OVERALL (a)	43/50 (86%)	42/50 (84%)	39/50 (78%)	35/49 (71%)
POLY-3 RATE (b)	43/48.48	42/47.14	39/44.90	35/44.95
POLY-3 PERCENT (g)	88.7%	89.1%	86.9%	77.9%
TERMINAL (d)	27/31 (87%)	30/32 (94%)	25/27 (93%)	25/30 (83%)
FIRST INCIDENCE	455	490	390	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.132N	P=0.470N	P=0.419	P=0.152N
POLY 3	P=0.055N	P=0.610	P=0.520N	P=0.119N
POLY 1.5	P=0.051N	P=0.567N	P=0.410N	P=0.100N
POLY 6	P=0.065N	P=0.497	P=0.628N	P=0.151N
LOGISTIC REGRESSION	P=0.037N*	P=0.460N	P=0.419N	P=0.066N
COCH-ARM / FISHERS	P=0.032N*	P=0.500N	P=0.218N	P=0.063N
ORDER RESTRICTED	P=0.076N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.087N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Kidney: Cortex  
 Cyst

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	2/42.74	1/42.43	0/37.18	1/42.14
POLY-3 PERCENT (g)	4.7%	2.4%	0%	2.4%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	728 (T)	728 (T)	---	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.384N	P=0.489N	P=0.269N	P=0.512N
POLY 3	P=0.382N	P=0.503N	P=0.269N	P=0.505N
POLY 1.5	P=0.381N	P=0.499N	P=0.259N	P=0.509N
POLY 6	P=0.380N	P=0.509N	P=0.278N	P=0.500N
LOGISTIC REGRESSION	P=0.384N	P=0.489N	(e)	P=0.512N
COCH-ARM / FISHERS	P=0.372N	P=0.500N	P=0.247N	P=0.508N
ORDER RESTRICTED	P=0.239N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.242N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Kidney: Renal Tubule  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	0/42.14
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Angiectasis

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	1/42.43	1/37.27	2/42.14
POLY-3 PERCENT (g)	0%	2.4%	2.7%	4.8%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/27 (0%)	2/30 (7%)
FIRST INCIDENCE	---	728 (T)	706	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.152	P=0.506	P=0.469	P=0.231
POLY 3	P=0.149	P=0.499	P=0.473	P=0.234
POLY 1.5	P=0.147	P=0.500	P=0.481	P=0.231
POLY 6	P=0.153	P=0.495	P=0.466	P=0.237
LOGISTIC REGRESSION	P=0.159	P=0.506	P=0.469	P=0.231
COCH-ARM / FISHERS	P=0.148	P=0.500	P=0.500	P=0.242
ORDER RESTRICTED	P=0.115	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.119	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006  
 Time Report Requested: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Basophilic Focus

**LESION RATES**

OVERALL (a)	44/50 (88%)	47/50 (94%)	45/50 (90%)	42/49 (86%)
POLY-3 RATE (b)	44/48.38	47/48.79	45/47.13	42/45.15
POLY-3 PERCENT (g)	91%	96.3%	95.5%	93%
TERMINAL (d)	29/31 (94%)	31/32 (97%)	27/27 (100%)	30/30 (100%)
FIRST INCIDENCE	198	449	237	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.446N	P=0.397	P=0.135	P=0.498N
POLY 3	P=0.500	P=0.231	P=0.300	P=0.505
POLY 1.5	P=0.567	P=0.231	P=0.332	P=0.549
POLY 6	P=0.397	P=0.246	P=0.281	P=0.437
LOGISTIC REGRESSION	P=0.408N	P=0.269	P=0.316	P=0.551N
COCH-ARM / FISHERS	P=0.293N	P=0.243	P=0.500	P=0.484N
ORDER RESTRICTED	P=0.282	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.298	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Clear Cell Focus

**LESION RATES**

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	2/42.94	2/37.18	1/42.19
POLY-3 PERCENT (g)	0%	4.7%	5.4%	2.4%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	2/27 (7%)	0/30 (0%)
FIRST INCIDENCE	---	574	728 (T)	715

**STATISTICAL TESTS**

LIFE TABLE	P=0.457	P=0.241	P=0.208	P=0.494
POLY 3	P=0.467	P=0.238	P=0.207	P=0.497
POLY 1.5	P=0.460	P=0.239	P=0.217	P=0.495
POLY 6	P=0.476	P=0.236	P=0.200	P=0.500
LOGISTIC REGRESSION	P=0.460	P=0.229	P=0.208	P=0.499
COCH-ARM / FISHERS	P=0.462	P=0.247	P=0.247	P=0.495
ORDER RESTRICTED	P=0.209	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Eosinophilic Focus

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	0/42.43	1/37.18	1/42.14
POLY-3 PERCENT (g)	0%	0%	2.7%	2.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	1/27 (4%)	1/30 (3%)
FIRST INCIDENCE	---	---	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.228	(e)	P=0.472	P=0.493
POLY 3	P=0.237	(e)	P=0.472	P=0.497
POLY 1.5	P=0.232	(e)	P=0.481	P=0.495
POLY 6	P=0.243	(e)	P=0.465	P=0.500
LOGISTIC REGRESSION	(e)	(e)	P=0.472	P=0.493
COCH-ARM / FISHERS	P=0.231	(e)	P=0.500	P=0.495
ORDER RESTRICTED	P=0.223	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.228	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Liver  
 Hematopoietic Cell Proliferation**

**LESION RATES**

OVERALL (a)	7/50 (14%)	10/50 (20%)	8/50 (16%)	4/49 (8%)
POLY-3 RATE (b)	7/44.35	10/44.26	8/39.54	4/42.25
POLY-3 PERCENT (g)	15.8%	22.6%	20.2%	9.5%
TERMINAL (d)	2/31 (7%)	6/32 (19%)	3/27 (11%)	2/30 (7%)
FIRST INCIDENCE	503	572	505	713

**STATISTICAL TESTS**

LIFE TABLE	P=0.177N	P=0.310	P=0.376	P=0.280N
POLY 3	P=0.175N	P=0.293	P=0.404	P=0.288N
POLY 1.5	P=0.174N	P=0.300	P=0.432	P=0.287N
POLY 6	P=0.178N	P=0.282	P=0.382	P=0.292N
LOGISTIC REGRESSION	P=0.156N	P=0.291	P=0.523	P=0.274N
COCH-ARM / FISHERS	P=0.156N	P=0.298	P=0.500	P=0.274N
ORDER RESTRICTED	P=0.161N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.173N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Hepatodiaphragmatic Nodule

**LESION RATES**

OVERALL (a)	6/50 (12%)	8/50 (16%)	8/50 (16%)	7/49 (14%)
POLY-3 RATE (b)	6/42.95	8/44.03	8/38.66	7/42.32
POLY-3 PERCENT (g)	14%	18.2%	20.7%	16.5%
TERMINAL (d)	3/31 (10%)	5/32 (16%)	5/27 (19%)	5/30 (17%)
FIRST INCIDENCE	695	546	511	694

**STATISTICAL TESTS**

LIFE TABLE	P=0.454	P=0.390	P=0.276	P=0.481
POLY 3	P=0.459	P=0.405	P=0.305	P=0.489
POLY 1.5	P=0.451	P=0.402	P=0.328	P=0.480
POLY 6	P=0.471	P=0.404	P=0.291	P=0.499
LOGISTIC REGRESSION	P=0.459	P=0.387	P=0.301	P=0.505
COCH-ARM / FISHERS	P=0.469	P=0.387	P=0.387	P=0.484
ORDER RESTRICTED	P=0.455	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.460	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	43/50 (86%)	40/50 (80%)	41/50 (82%)	39/49 (80%)
POLY-3 RATE (b)	43/48.17	40/46.62	41/48.11	39/46.59
POLY-3 PERCENT (g)	89.3%	85.8%	85.2%	83.7%
TERMINAL (d)	28/31 (90%)	29/32 (91%)	22/27 (82%)	26/30 (87%)
FIRST INCIDENCE	198	490	55	190

**STATISTICAL TESTS**

LIFE TABLE	P=0.414N	P=0.332N	P=0.312	P=0.361N
POLY 3	P=0.263N	P=0.414N	P=0.381N	P=0.302N
POLY 1.5	P=0.305N	P=0.357N	P=0.391N	P=0.322N
POLY 6	P=0.223N	P=0.500N	P=0.355N	P=0.289N
LOGISTIC REGRESSION	P=0.323N	P=0.263N	P=0.399N	P=0.305N
COCH-ARM / FISHERS	P=0.291N	P=0.298N	P=0.393N	P=0.282N
ORDER RESTRICTED	P=0.324N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.333N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver  
 Mixed Cell Focus

**LESION RATES**

OVERALL (a)	9/50 (18%)	13/50 (26%)	8/50 (16%)	8/49 (16%)
POLY-3 RATE (b)	9/43.34	13/42.94	8/37.32	8/42.27
POLY-3 PERCENT (g)	20.8%	30.3%	21.4%	18.9%
TERMINAL (d)	7/31 (23%)	12/32 (38%)	7/27 (26%)	7/30 (23%)
FIRST INCIDENCE	554	572	694	695

**STATISTICAL TESTS**

LIFE TABLE	P=0.336N	P=0.250	P=0.578	P=0.528N
POLY 3	P=0.324N	P=0.220	P=0.579	P=0.523N
POLY 1.5	P=0.330N	P=0.231	P=0.591N	P=0.529N
POLY 6	P=0.313N	P=0.202	P=0.542	P=0.515N
LOGISTIC REGRESSION	P=0.295N	P=0.211	P=0.555	P=0.502N
COCH-ARM / FISHERS	P=0.309N	P=0.235	P=0.500N	P=0.518N
ORDER RESTRICTED	P=0.364N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.372N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

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DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

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Liver: Bile Duct  
 Hyperplasia

**LESION RATES**

OVERALL (a)	23/50 (46%)	22/50 (44%)	29/50 (58%)	24/49 (49%)
POLY-3 RATE (b)	23/43.90	22/44.02	29/40.06	24/43.64
POLY-3 PERCENT (g)	52.4%	50%	72.4%	55%
TERMINAL (d)	18/31 (58%)	18/32 (56%)	24/27 (89%)	17/30 (57%)
FIRST INCIDENCE	599	490	422	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.283	P=0.473N	P=0.029*	P=0.456
POLY 3	P=0.322	P=0.495N	P=0.039*	P=0.488
POLY 1.5	P=0.299	P=0.483N	P=0.066	P=0.461
POLY 6	P=0.356	P=0.525N	P=0.023*	P=0.513
LOGISTIC REGRESSION	P=0.309	P=0.532N	P=0.023*	P=0.482
COCH-ARM / FISHERS	P=0.329	P=0.500N	P=0.158	P=0.462
ORDER RESTRICTED	P=0.174	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.181	(e)	(e)	(e)

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TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Degeneration Cystic

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	0/42.43	1/37.80	1/42.14
POLY-3 PERCENT (g)	0%	0%	2.7%	2.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	531	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.232	(e)	P=0.467	P=0.493
POLY 3	P=0.237	(e)	P=0.475	P=0.497
POLY 1.5	P=0.232	(e)	P=0.483	P=0.495
POLY 6	P=0.243	(e)	P=0.470	P=0.500
LOGISTIC REGRESSION	P=0.237	(e)	P=0.569	P=0.493
COCH-ARM / FISHERS	P=0.231	(e)	P=0.500	P=0.495
ORDER RESTRICTED	P=0.226	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.231	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Fatty Change

**LESION RATES**

OVERALL (a)	6/50 (12%)	5/50 (10%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	6/44.40	5/43.41	0/37.18	2/42.25
POLY-3 PERCENT (g)	13.5%	11.5%	0%	4.7%
TERMINAL (d)	2/31 (7%)	2/32 (6%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	455	554	---	713

**STATISTICAL TESTS**

LIFE TABLE	P=0.057N	P=0.508N	P=0.033N*	P=0.151N
POLY 3	P=0.052N	P=0.516N	P=0.027N*	P=0.149N
POLY 1.5	P=0.051N	P=0.506N	P=0.022N*	P=0.148N
POLY 6	P=0.053N	P=0.530N	P=0.032N*	P=0.149N
LOGISTIC REGRESSION	P=0.046N*	P=0.516N	P=0.013N*	P=0.136N
COCH-ARM / FISHERS	P=0.047N*	P=0.500N	P=0.013N*	P=0.141N
ORDER RESTRICTED	P=0.034N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.041N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Necrosis

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	2/42.14
POLY-3 PERCENT (g)	0%	0%	0%	4.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	2/30 (7%)
FIRST INCIDENCE	---	---	---	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.045*	(e)	(e)	P=0.231
POLY 3	P=0.043*	(e)	(e)	P=0.234
POLY 1.5	P=0.043*	(e)	(e)	P=0.231
POLY 6	P=0.044*	(e)	(e)	P=0.237
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.231
COCH-ARM / FISHERS	P=0.045*	(e)	(e)	P=0.242
ORDER RESTRICTED	P=0.028*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte  
 Vacuolization Cytoplasmic

**LESION RATES**

OVERALL (a)	9/50 (18%)	5/50 (10%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	9/44.37	5/43.52	2/37.61	2/42.61
POLY-3 PERCENT (g)	20.3%	11.5%	5.3%	4.7%
TERMINAL (d)	6/31 (19%)	3/32 (9%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	198	546	603	633

**STATISTICAL TESTS**

LIFE TABLE	P=0.017N*	P=0.192N	P=0.052N	P=0.032N*
POLY 3	P=0.013N*	P=0.201N	P=0.047N*	P=0.029N*
POLY 1.5	P=0.014N*	P=0.197N	P=0.039N*	P=0.030N*
POLY 6	P=0.013N*	P=0.209N	P=0.055N	P=0.027N*
LOGISTIC REGRESSION	P=0.012N*	P=0.204N	P=0.025N*	P=0.027N*
COCH-ARM / FISHERS	P=0.013N*	P=0.194N	P=0.026N*	P=0.028N*
ORDER RESTRICTED	P=0.010N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Liver: Hepatocyte, Centrilobular  
 Degeneration

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	2/43.77	0/42.43	0/37.18	2/42.51
POLY-3 PERCENT (g)	4.6%	0%	0%	4.7%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	474	---	---	634

**STATISTICAL TESTS**

LIFE TABLE	P=0.489	P=0.240N	P=0.280N	P=0.684
POLY 3	P=0.491	P=0.244N	P=0.275N	P=0.684
POLY 1.5	P=0.488	P=0.240N	P=0.262N	P=0.681
POLY 6	P=0.496	P=0.250N	P=0.287N	P=0.687
LOGISTIC REGRESSION	P=0.516	P=0.286N	P=0.174N	P=0.684N
COCH-ARM / FISHERS	P=0.494	P=0.247N	P=0.247N	P=0.684
ORDER RESTRICTED	P=0.271	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.278	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Fibrosis**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	3/43.99
POLY-3 PERCENT (g)	0%	0%	0%	6.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.016*	(e)	(e)	P=0.130
POLY 3	P=0.011*	(e)	(e)	P=0.124
POLY 1.5	P=0.011*	(e)	(e)	P=0.120
POLY 6	P=0.011*	(e)	(e)	P=0.129
LOGISTIC REGRESSION	P=0.012*	(e)	(e)	P=0.124
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.009**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	31/50 (62%)	30/50 (60%)	28/50 (56%)	37/50 (74%)
POLY-3 RATE (b)	31/46.68	30/45.22	28/41.70	37/46.47
POLY-3 PERCENT (g)	66.4%	66.4%	67.2%	79.6%
TERMINAL (d)	20/31 (65%)	22/32 (69%)	20/27 (74%)	25/30 (83%)
FIRST INCIDENCE	455	554	237	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.097	P=0.479N	P=0.470	P=0.162
POLY 3	P=0.068	P=0.588N	P=0.562	P=0.107
POLY 1.5	P=0.069	P=0.537N	P=0.511N	P=0.105
POLY 6	P=0.069	P=0.532	P=0.442	P=0.108
LOGISTIC REGRESSION	P=0.081	P=0.494N	P=0.499N	P=0.126
COCH-ARM / FISHERS	P=0.108	P=0.500N	P=0.342N	P=0.142
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.107	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Metaplasia Osseous**

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/42.74	1/42.43	1/37.18	0/43.08
POLY-3 PERCENT (g)	4.7%	2.4%	2.7%	0%
TERMINAL (d)	2/31 (7%)	1/32 (3%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.165N	P=0.489N	P=0.549N	P=0.245N
POLY 3	P=0.155N	P=0.503N	P=0.548N	P=0.235N
POLY 1.5	P=0.157N	P=0.499N	P=0.533N	P=0.238N
POLY 6	P=0.152N	P=0.509N	P=0.561N	P=0.232N
LOGISTIC REGRESSION	P=0.165N	P=0.489N	P=0.549N	(e)
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.116N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.122N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung  
 Pigmentation**

**LESION RATES**

OVERALL (a)	3/50 (6%)	3/50 (6%)	5/50 (10%)	2/50 (4%)
POLY-3 RATE (b)	3/42.74	3/42.43	5/37.18	2/43.08
POLY-3 PERCENT (g)	7%	7.1%	13.5%	4.6%
TERMINAL (d)	3/31 (10%)	3/32 (9%)	5/27 (19%)	2/30 (7%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.475N	P=0.650N	P=0.279	P=0.515N
POLY 3	P=0.439N	P=0.660	P=0.281	P=0.496N
POLY 1.5	P=0.448N	P=0.661N	P=0.305	P=0.502N
POLY 6	P=0.426N	P=0.652	P=0.263	P=0.490N
LOGISTIC REGRESSION	P=0.475N	P=0.650N	P=0.279	P=0.515N
COCH-ARM / FISHERS	P=0.442N	P=0.661N	P=0.357	P=0.500N
ORDER RESTRICTED	P=0.355N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.361N	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Alveolar Epithelium  
 Hyperplasia

**LESION RATES**

OVERALL (a)	11/50 (22%)	10/50 (20%)	10/50 (20%)	8/50 (16%)
POLY-3 RATE (b)	11/43.81	10/42.94	10/38.02	8/43.08
POLY-3 PERCENT (g)	25.1%	23.3%	26.3%	18.6%
TERMINAL (d)	8/31 (26%)	8/32 (25%)	8/27 (30%)	8/30 (27%)
FIRST INCIDENCE	503	625	462	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.301N	P=0.488N	P=0.551	P=0.324N
POLY 3	P=0.280N	P=0.521N	P=0.552	P=0.316N
POLY 1.5	P=0.284N	P=0.506N	P=0.599N	P=0.319N
POLY 6	P=0.275N	P=0.545N	P=0.509	P=0.315N
LOGISTIC REGRESSION	P=0.260N	P=0.512N	P=0.561	P=0.292N
COCH-ARM / FISHERS	P=0.263N	P=0.500N	P=0.500N	P=0.306N
ORDER RESTRICTED	P=0.366N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.374N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung: Alveolus  
 Infiltration Cellular Histiocyte**

**LESION RATES**

OVERALL (a)	45/50 (90%)	46/50 (92%)	46/50 (92%)	37/50 (74%)
POLY-3 RATE (b)	45/48.68	46/48.45	46/47.80	37/45.38
POLY-3 PERCENT (g)	92.4%	95%	96.2%	81.5%
TERMINAL (d)	29/31 (94%)	32/32 (100%)	27/27 (100%)	26/30 (87%)
FIRST INCIDENCE	198	449	55	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.131N	P=0.536	P=0.135	P=0.141N
POLY 3	P=0.020N*	P=0.459	P=0.344	P=0.086N
POLY 1.5	P=0.017N*	P=0.487	P=0.381	P=0.070N
POLY 6	P=0.028N*	P=0.386	P=0.319	P=0.118N
LOGISTIC REGRESSION	P=0.008N**	P=0.539	P=0.369	P=0.033N*
COCH-ARM / FISHERS	P=0.006N**	P=0.500	P=0.500	P=0.033N*
ORDER RESTRICTED	P=0.008N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012N*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Bronchus  
 Hyperplasia

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	3/43.99
POLY-3 PERCENT (g)	0%	0%	0%	6.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.016*	(e)	(e)	P=0.130
POLY 3	P=0.011*	(e)	(e)	P=0.124
POLY 1.5	P=0.011*	(e)	(e)	P=0.120
POLY 6	P=0.011*	(e)	(e)	P=0.129
LOGISTIC REGRESSION	P=0.012*	(e)	(e)	P=0.124
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.009**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Lung: Bronchus  
 Metaplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	3/43.99
POLY-3 PERCENT (g)	0%	0%	0%	6.8%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.016*	(e)	(e)	P=0.130
POLY 3	P=0.011*	(e)	(e)	P=0.124
POLY 1.5	P=0.011*	(e)	(e)	P=0.120
POLY 6	P=0.011*	(e)	(e)	P=0.129
LOGISTIC REGRESSION	P=0.012*	(e)	(e)	P=0.124
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
ORDER RESTRICTED	P=0.009**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.011*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)  
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Lung: Perivascular  
 Infiltration Cellular Lymphoid

**LESION RATES**

OVERALL (a)	40/50 (80%)	45/50 (90%)	43/50 (86%)	42/50 (84%)
POLY-3 RATE (b)	40/46.68	45/48.22	43/48.47	42/47.49
POLY-3 PERCENT (g)	85.7%	93.3%	88.7%	88.4%
TERMINAL (d)	28/31 (90%)	30/32 (94%)	25/27 (93%)	27/30 (90%)
FIRST INCIDENCE	455	449	55	9

**STATISTICAL TESTS**

LIFE TABLE	P=0.367	P=0.266	P=0.087	P=0.365
POLY 3	P=0.538	P=0.166	P=0.442	P=0.461
POLY 1.5	P=0.502	P=0.157	P=0.399	P=0.428
POLY 6	P=0.557N	P=0.193	P=0.492	P=0.517
LOGISTIC REGRESSION	P=0.420	P=0.138	P=0.235	P=0.355
COCH-ARM / FISHERS	P=0.473	P=0.131	P=0.298	P=0.398
ORDER RESTRICTED	P=0.361	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.369	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland  
 Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	1/42.19
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	716

**STATISTICAL TESTS**

LIFE TABLE	P=0.199	(e)	(e)	P=0.488
POLY 3	P=0.197	(e)	(e)	P=0.497
POLY 1.5	P=0.195	(e)	(e)	P=0.495
POLY 6	P=0.200	(e)	(e)	P=0.500
LOGISTIC REGRESSION	P=0.203	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.195	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.117	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.122	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland  
 Galactocele**

**LESION RATES**

OVERALL (a)	17/50 (34%)	17/50 (34%)	21/50 (42%)	17/49 (35%)
POLY-3 RATE (b)	17/43.57	17/43.78	21/38.12	17/42.97
POLY-3 PERCENT (g)	39%	38.8%	55.1%	39.6%
TERMINAL (d)	13/31 (42%)	13/32 (41%)	16/27 (59%)	12/30 (40%)
FIRST INCIDENCE	645	572	627	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.435	P=0.560N	P=0.112	P=0.547
POLY 3	P=0.456	P=0.581N	P=0.103	P=0.567
POLY 1.5	P=0.438	P=0.573N	P=0.148	P=0.549
POLY 6	P=0.483	P=0.582	P=0.075	P=0.587
LOGISTIC REGRESSION	P=0.478	P=0.561	P=0.070	P=0.583
COCH-ARM / FISHERS	P=0.468	P=0.583N	P=0.268	P=0.555
ORDER RESTRICTED	P=0.349	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.354	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mammary Gland: Duct  
 Dilatation**

**LESION RATES**

OVERALL (a)	37/50 (74%)	40/50 (80%)	35/50 (70%)	38/49 (78%)
POLY-3 RATE (b)	37/45.82	40/48.31	35/41.89	38/44.97
POLY-3 PERCENT (g)	80.8%	82.8%	83.5%	84.5%
TERMINAL (d)	26/31 (84%)	26/32 (81%)	23/27 (85%)	26/30 (87%)
FIRST INCIDENCE	555	449	462	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.444	P=0.395	P=0.318	P=0.444
POLY 3	P=0.365	P=0.504	P=0.473	P=0.419
POLY 1.5	P=0.375	P=0.446	P=0.573	P=0.394
POLY 6	P=0.352	P=0.546	P=0.388	P=0.432
LOGISTIC REGRESSION	P=0.412	P=0.330	P=0.328	P=0.420
COCH-ARM / FISHERS	P=0.491	P=0.318	P=0.412N	P=0.430
ORDER RESTRICTED	P=0.484	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.489	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
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 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Fibrosis

**LESION RATES**

OVERALL (a)	5/7 (71%)	8/10 (80%)	7/9 (78%)	8/9 (89%)
POLY-3 RATE (b)	5/6.96	8/9.42	7/8.36	8/8.75
POLY-3 PERCENT (g)	71.8%	84.9%	83.8%	91.4%
TERMINAL (d)	5/6 (83%)	7/7 (100%)	6/7 (86%)	4/4 (100%)
FIRST INCIDENCE	728 (T)	649	390	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.019*	P=0.220	P=0.450	P=0.044*
POLY 3	P=0.263	P=0.488	P=0.522	P=0.363
POLY 1.5	P=0.283	P=0.524	P=0.557	P=0.384
POLY 6	P=0.233	P=0.428	P=0.489	P=0.326
LOGISTIC REGRESSION	P=0.220	P=0.290	P=0.558	P=0.393
COCH-ARM / FISHERS	P=0.299	P=0.559	P=0.608	P=0.400
ORDER RESTRICTED	P=0.242	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.243	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Inflammation Chronic

**LESION RATES**

OVERALL (a)	5/7 (71%)	7/10 (70%)	7/9 (78%)	5/9 (56%)
POLY-3 RATE (b)	5/7.00	7/9.13	7/9.00	5/7.77
POLY-3 PERCENT (g)	71.4%	76.7%	77.8%	64.3%
TERMINAL (d)	4/6 (67%)	7/7 (100%)	5/7 (71%)	4/4 (100%)
FIRST INCIDENCE	719	728 (T)	390	694

**STATISTICAL TESTS**

LIFE TABLE	P=0.283	P=0.464	P=0.413	P=0.369
POLY 3	P=0.454N	P=0.632	P=0.608	P=0.604N
POLY 1.5	P=0.391N	P=0.674	P=0.608	P=0.531N
POLY 6	P=0.553N	P=0.550	P=0.608	P=0.715N
LOGISTIC REGRESSION	P=0.392N	P=0.291	(e)	P=0.522
COCH-ARM / FISHERS	P=0.317N	P=0.686N	P=0.608	P=0.451N
ORDER RESTRICTED	P=0.505N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.502N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Mineralization

**LESION RATES**

OVERALL (a)	4/7 (57%)	6/10 (60%)	3/9 (33%)	5/9 (56%)
POLY-3 RATE (b)	4/6.96	6/9.42	3/7.51	5/8.32
POLY-3 PERCENT (g)	57.4%	63.7%	39.9%	60.1%
TERMINAL (d)	4/6 (67%)	5/7 (71%)	3/7 (43%)	2/4 (50%)
FIRST INCIDENCE	728 (T)	649	728 (T)	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.293	P=0.436	P=0.386N	P=0.302
POLY 3	P=0.571N	P=0.598	P=0.446N	P=0.655
POLY 1.5	P=0.543N	P=0.618	P=0.406N	P=0.678
POLY 6	P=0.580	P=0.567	P=0.477N	P=0.618
LOGISTIC REGRESSION	P=0.537	P=0.524	P=0.386N	P=0.691
COCH-ARM / FISHERS	P=0.508N	P=0.646	P=0.329N	P=0.671N
ORDER RESTRICTED	P=0.545N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.545N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Mesentery: Fat  
 Necrosis

**LESION RATES**

OVERALL (a)	7/7 (100%)	9/10 (90%)	7/9 (78%)	9/9 (100%)
POLY-3 RATE (b)	7/7.00	9/9.57	7/8.15	9/9.00
POLY-3 PERCENT (g)	100%	94.1%	85.9%	100%
TERMINAL (d)	6/6 (100%)	7/7 (100%)	6/7 (86%)	4/4 (100%)
FIRST INCIDENCE	719	649	517	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.079	P=0.487	P=0.557N	(e)
POLY 3	P=0.667	P=0.817N	P=0.474N	(e)
POLY 1.5	P=0.628	P=0.688N	P=0.399N	(e)
POLY 6	P=0.721	P=0.986N	P=0.518N	(e)
LOGISTIC REGRESSION	P=0.416	(e)	P=0.564N	(e)
COCH-ARM / FISHERS	P=0.585	P=0.588N	P=0.300N	(e)
ORDER RESTRICTED	P=0.401	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.406	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Mesentery: Fat  
 Pigmentation**

**LESION RATES**

OVERALL (a)	0/7 (0%)	0/10 (0%)	0/9 (0%)	3/9 (33%)
POLY-3 RATE (b)	0/6.96	0/9.13	0/7.51	3/8.15
POLY-3 PERCENT (g)	0%	0%	0%	36.8%
TERMINAL (d)	0/6 (0%)	0/7 (0%)	0/7 (0%)	2/4 (50%)
FIRST INCIDENCE	---	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.005**	(e)	(e)	P=0.074
POLY 3	P=0.005**	(e)	(e)	P=0.114
POLY 1.5	P=0.005**	(e)	(e)	P=0.125
POLY 6	P=0.004**	(e)	(e)	P=0.097
LOGISTIC REGRESSION	P=0.011*	(e)	(e)	P=0.230
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	P=0.150
ORDER RESTRICTED	P=0.006**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose  
 Foreign Body

**LESION RATES**

OVERALL (a)	3/50 (6%)	2/49 (4%)	1/49 (2%)	8/49 (16%)
POLY-3 RATE (b)	3/42.74	2/41.74	1/36.77	8/42.82
POLY-3 PERCENT (g)	7%	4.8%	2.7%	18.7%
TERMINAL (d)	3/31 (10%)	2/32 (6%)	1/27 (4%)	6/30 (20%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.022*	P=0.485N	P=0.355N	P=0.095
POLY 3	P=0.021*	P=0.511N	P=0.361N	P=0.097
POLY 1.5	P=0.020*	P=0.507N	P=0.345N	P=0.092
POLY 6	P=0.022*	P=0.517N	P=0.372N	P=0.104
LOGISTIC REGRESSION	P=0.026*	P=0.485N	P=0.355N	P=0.096
COCH-ARM / FISHERS	P=0.023*	P=0.510N	P=0.316N	P=0.094
ORDER RESTRICTED	P=0.012*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.014*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Inflammation**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	8/49 (16%)
POLY-3 RATE (b)	0/42.74	0/41.74	0/36.77	8/43.40
POLY-3 PERCENT (g)	0%	0%	0%	18.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	5/30 (17%)
FIRST INCIDENCE	---	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	(e)	(e)	P=0.005**
POLY 3	P<0.001**	(e)	(e)	P=0.004**
POLY 1.5	P<0.001**	(e)	(e)	P=0.003**
POLY 6	P<0.001**	(e)	(e)	P=0.004**
LOGISTIC REGRESSION	P<0.001**	(e)	(e)	P=0.004**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.003**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	4/50 (8%)	3/49 (6%)	2/49 (4%)	7/49 (14%)
POLY-3 RATE (b)	4/42.74	3/41.74	2/36.77	7/42.27
POLY-3 PERCENT (g)	9.4%	7.2%	5.4%	16.6%
TERMINAL (d)	4/31 (13%)	3/32 (9%)	2/27 (7%)	6/30 (20%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	695

**STATISTICAL TESTS**

LIFE TABLE	P=0.126	P=0.482N	P=0.401N	P=0.244
POLY 3	P=0.133	P=0.513N	P=0.408N	P=0.253
POLY 1.5	P=0.131	P=0.509N	P=0.389N	P=0.246
POLY 6	P=0.138	P=0.520N	P=0.423N	P=0.261
LOGISTIC REGRESSION	P=0.148	P=0.482N	P=0.401N	P=0.261
COCH-ARM / FISHERS	P=0.140	P=0.511N	P=0.349N	P=0.251
ORDER RESTRICTED	P=0.111	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.117	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose  
 Thrombosis**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	0/41.74	0/36.77	1/42.17
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	719

**STATISTICAL TESTS**

LIFE TABLE	P=0.194	(e)	(e)	P=0.482
POLY 3	P=0.199	(e)	(e)	P=0.497
POLY 1.5	P=0.196	(e)	(e)	P=0.495
POLY 6	P=0.201	(e)	(e)	P=0.500
LOGISTIC REGRESSION	P=0.204	(e)	(e)	P=0.501
COCH-ARM / FISHERS	P=0.197	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.117	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Nasolacrimal Duct  
 Inflammation**

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/49 (2%)	1/49 (2%)	2/49 (4%)
POLY-3 RATE (b)	1/42.74	1/42.26	1/36.77	2/42.14
POLY-3 PERCENT (g)	2.3%	2.4%	2.7%	4.8%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	1/27 (4%)	2/30 (7%)
FIRST INCIDENCE	728 (T)	572	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.338	P=0.754N	P=0.731	P=0.488
POLY 3	P=0.345	P=0.758	P=0.726	P=0.495
POLY 1.5	P=0.341	P=0.759	P=0.736	P=0.491
POLY 6	P=0.349	P=0.757	P=0.719	P=0.500
LOGISTIC REGRESSION	P=0.345	P=0.752	P=0.731	P=0.488
COCH-ARM / FISHERS	P=0.346	P=0.747	P=0.747	P=0.492
ORDER RESTRICTED	P=0.407	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.414	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006  
 Time Report Requested: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Nasolacrimal Duct  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	2/50 (4%)	2/49 (4%)	3/49 (6%)	12/49 (24%)
POLY-3 RATE (b)	2/42.87	2/42.02	3/36.77	12/44.28
POLY-3 PERCENT (g)	4.7%	4.8%	8.2%	27.1%
TERMINAL (d)	1/31 (3%)	1/32 (3%)	3/27 (11%)	5/30 (17%)
FIRST INCIDENCE	695	653	728 (T)	459

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.683	P=0.433	P=0.007**
POLY 3	P<0.001**	P=0.687	P=0.430	P=0.004**
POLY 1.5	P<0.001**	P=0.689	P=0.449	P=0.003**
POLY 6	P<0.001**	P=0.684	P=0.415	P=0.005**
LOGISTIC REGRESSION	P<0.001**	P=0.687	P=0.415	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P=0.684	P=0.490	P=0.003**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Accumulation, Hyaline Droplet**

**LESION RATES**

OVERALL (a)	34/50 (68%)	15/49 (31%)	22/49 (45%)	0/49 (0%)
POLY-3 RATE (b)	34/44.01	15/43.29	22/40.74	0/42.14
POLY-3 PERCENT (g)	77.3%	34.7%	54%	0%
TERMINAL (d)	26/31 (84%)	11/32 (34%)	14/27 (52%)	0/30 (0%)
FIRST INCIDENCE	609	489	462	---

**STATISTICAL TESTS**

LIFE TABLE	P<0.001N**	P<0.001N**	P=0.101N	P<0.001N**
POLY 3	P<0.001N**	P<0.001N**	P=0.015N*	P<0.001N**
POLY 1.5	P<0.001N**	P<0.001N**	P=0.016N*	P<0.001N**
POLY 6	P<0.001N**	P<0.001N**	P=0.012N*	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P<0.001N**	P=0.062N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P<0.001N**	P=0.017N*	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Degeneration**

**LESION RATES**

OVERALL (a)	21/50 (42%)	35/49 (71%)	36/49 (73%)	28/49 (57%)
POLY-3 RATE (b)	21/43.87	35/45.64	36/43.34	28/44.75
POLY-3 PERCENT (g)	47.9%	76.7%	83.1%	62.6%
TERMINAL (d)	15/31 (48%)	26/32 (81%)	24/27 (89%)	20/30 (67%)
FIRST INCIDENCE	599	489	237	479

**STATISTICAL TESTS**

LIFE TABLE	P=0.175	P=0.010**	P<0.001**	P=0.113
POLY 3	P=0.206	P=0.003**	P<0.001**	P=0.113
POLY 1.5	P=0.168	P=0.002**	P<0.001**	P=0.095
POLY 6	P=0.263	P=0.003**	P<0.001**	P=0.138
LOGISTIC REGRESSION	P=0.151	P=0.002**	P<0.001**	P=0.090
COCH-ARM / FISHERS	P=0.186	P=0.003**	P<0.001**	P=0.096
ORDER RESTRICTED	P=0.003**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Metaplasia**

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	0/41.74	0/36.77	2/42.48
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	634

**STATISTICAL TESTS**

LIFE TABLE	P=0.049*	(e)	(e)	P=0.239
POLY 3	P=0.044*	(e)	(e)	P=0.235
POLY 1.5	P=0.044*	(e)	(e)	P=0.232
POLY 6	P=0.046*	(e)	(e)	P=0.240
LOGISTIC REGRESSION	P=0.046*	(e)	(e)	P=0.233
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.242
ORDER RESTRICTED	P=0.029*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Olfactory Epithelium  
 Metaplasia Respiratory**

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)	11/49 (22%)
POLY-3 RATE (b)	1/42.74	1/41.74	0/36.77	11/43.37
POLY-3 PERCENT (g)	2.3%	2.4%	0%	25.4%
TERMINAL (d)	1/31 (3%)	1/32 (3%)	0/27 (0%)	7/30 (23%)
FIRST INCIDENCE	728 (T)	728 (T)	---	574

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.755N	P=0.528N	P=0.003**
POLY 3	P<0.001**	P=0.756	P=0.530N	P=0.002**
POLY 1.5	P<0.001**	P=0.757	P=0.522N	P=0.002**
POLY 6	P<0.001**	P=0.753	P=0.536N	P=0.002**
LOGISTIC REGRESSION	P<0.001**	P=0.755N	(e)	P=0.002**
COCH-ARM / FISHERS	P<0.001**	P=0.747	P=0.505N	P=0.002**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Respiratory Epithelium  
 Accumulation, Hyaline Droplet**

**LESION RATES**

OVERALL (a)	9/50 (18%)	3/49 (6%)	4/49 (8%)	0/49 (0%)
POLY-3 RATE (b)	9/43.70	3/41.74	4/36.77	0/42.14
POLY-3 PERCENT (g)	20.6%	7.2%	10.9%	0%
TERMINAL (d)	6/31 (19%)	3/32 (9%)	4/27 (15%)	0/30 (0%)
FIRST INCIDENCE	609	728 (T)	728 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.003N**	P=0.061N	P=0.189N	P=0.003N**
POLY 3	P=0.002N**	P=0.068N	P=0.191N	P=0.002N**
POLY 1.5	P=0.002N**	P=0.065N	P=0.166N	P=0.002N**
POLY 6	P=0.002N**	P=0.075N	P=0.217N	P=0.002N**
LOGISTIC REGRESSION	P=0.003N**	P=0.067N	P=0.187N	P=0.003N**
COCH-ARM / FISHERS	P=0.003N**	P=0.065N	P=0.125N	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose: Respiratory Epithelium  
 Hyperplasia

**LESION RATES**

OVERALL (a)	18/50 (36%)	13/49 (27%)	21/49 (43%)	20/49 (41%)
POLY-3 RATE (b)	18/45.15	13/45.08	21/44.43	20/44.50
POLY-3 PERCENT (g)	39.9%	28.8%	47.3%	44.9%
TERMINAL (d)	12/31 (39%)	7/32 (22%)	9/27 (33%)	11/30 (37%)
FIRST INCIDENCE	474	449	237	550

**STATISTICAL TESTS**

LIFE TABLE	P=0.209	P=0.203N	P=0.195	P=0.409
POLY 3	P=0.183	P=0.187N	P=0.310	P=0.392
POLY 1.5	P=0.171	P=0.191N	P=0.303	P=0.374
POLY 6	P=0.207	P=0.190N	P=0.325	P=0.422
LOGISTIC REGRESSION	P=0.206	P=0.217N	P=0.384	P=0.380
COCH-ARM / FISHERS	P=0.194	P=0.212N	P=0.311	P=0.387
ORDER RESTRICTED	P=0.196	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.203	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Nose: Respiratory Epithelium  
 Metaplasia**

**LESION RATES**

OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)	24/49 (49%)
POLY-3 RATE (b)	1/42.74	1/42.25	0/36.77	24/44.11
POLY-3 PERCENT (g)	2.3%	2.4%	0%	54.4%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	16/30 (53%)
FIRST INCIDENCE	728 (T)	574	---	550

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.759N	P=0.528N	P<0.001**
POLY 3	P<0.001**	P=0.758	P=0.530N	P<0.001**
POLY 1.5	P<0.001**	P=0.759	P=0.522N	P<0.001**
POLY 6	P<0.001**	P=0.757	P=0.536N	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.752	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.747	P=0.505N	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Nose: Respiratory Epithelium  
 Necrosis

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/49 (2%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/42.74	1/41.74	0/36.77	2/42.55
POLY-3 PERCENT (g)	0%	2.4%	0%	4.7%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	---	728 (T)	---	609

**STATISTICAL TESTS**

LIFE TABLE	P=0.138	P=0.506	(e)	P=0.236
POLY 3	P=0.137	P=0.495	(e)	P=0.236
POLY 1.5	P=0.135	P=0.497	(e)	P=0.233
POLY 6	P=0.140	P=0.493	(e)	P=0.240
LOGISTIC REGRESSION	P=0.138	P=0.506	(e)	P=0.234
COCH-ARM / FISHERS	P=0.138	P=0.495	(e)	P=0.242
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.079	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Ovary  
 Cyst

**LESION RATES**

OVERALL (a)	11/49 (22%)	10/50 (20%)	6/50 (12%)	5/49 (10%)
POLY-3 RATE (b)	11/43.97	10/42.61	6/38.94	5/42.53
POLY-3 PERCENT (g)	25%	23.5%	15.4%	11.8%
TERMINAL (d)	7/30 (23%)	9/32 (28%)	2/27 (7%)	3/30 (10%)
FIRST INCIDENCE	474	680	390	633

**STATISTICAL TESTS**

LIFE TABLE	P=0.057N	P=0.457N	P=0.234N	P=0.095N
POLY 3	P=0.049N*	P=0.533N	P=0.209N	P=0.093N
POLY 1.5	P=0.050N*	P=0.504N	P=0.182N	P=0.093N
POLY 6	P=0.047N*	P=0.572N	P=0.233N	P=0.093N
LOGISTIC REGRESSION	P=0.048N*	P=0.477N	P=0.124N	P=0.086N
COCH-ARM / FISHERS	P=0.045N*	P=0.479N	P=0.133N	P=0.085N
ORDER RESTRICTED	P=0.081N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.077N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pancreas  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	2/43.12	1/37.18	0/42.14
POLY-3 PERCENT (g)	0%	4.6%	2.7%	0%
TERMINAL (d)	0/31 (0%)	1/32 (3%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	---	490	728 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.475N	P=0.246	P=0.472	(e)
POLY 3	P=0.469N	P=0.239	P=0.472	(e)
POLY 1.5	P=0.471N	P=0.240	P=0.481	(e)
POLY 6	P=0.465N	P=0.236	P=0.465	(e)
LOGISTIC REGRESSION	P=0.460N	P=0.205	P=0.472	(e)
COCH-ARM / FISHERS	P=0.466N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.310	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.316	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pancreas: Acinus  
 Atrophy**

**LESION RATES**

OVERALL (a)	10/50 (20%)	11/50 (22%)	5/50 (10%)	10/49 (20%)
POLY-3 RATE (b)	10/43.84	11/44.06	5/37.87	10/43.00
POLY-3 PERCENT (g)	22.8%	25%	13.2%	23.3%
TERMINAL (d)	5/31 (16%)	7/32 (22%)	3/27 (11%)	6/30 (20%)
FIRST INCIDENCE	609	490	511	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.488N	P=0.495	P=0.232N	P=0.574
POLY 3	P=0.494N	P=0.505	P=0.203N	P=0.581
POLY 1.5	P=0.496N	P=0.511	P=0.176N	P=0.572
POLY 6	P=0.489N	P=0.489	P=0.232N	P=0.590
LOGISTIC REGRESSION	P=0.482N	P=0.501	P=0.186N	P=0.580
COCH-ARM / FISHERS	P=0.470N	P=0.500	P=0.131N	P=0.579
ORDER RESTRICTED	P=0.424N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.430N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Pancreas: Acinus  
 Hyperplasia

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	1/37.18	0/42.14
POLY-3 PERCENT (g)	0%	0%	2.7%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	---	---	728 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.685	(e)	P=0.472	(e)
POLY 3	P=0.704	(e)	P=0.472	(e)
POLY 1.5	P=0.696	(e)	P=0.481	(e)
POLY 6	P=0.713	(e)	P=0.465	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.472	(e)
COCH-ARM / FISHERS	P=0.692	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.357	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.362	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pancreas: Duct  
 Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	3/49 (6%)
POLY-3 RATE (b)	0/42.74	1/42.94	0/37.18	3/42.95
POLY-3 PERCENT (g)	0%	2.3%	0%	7%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	572	---	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.049*	P=0.504	(e)	P=0.123
POLY 3	P=0.041*	P=0.501	(e)	P=0.119
POLY 1.5	P=0.040*	P=0.502	(e)	P=0.116
POLY 6	P=0.042*	P=0.499	(e)	P=0.124
LOGISTIC REGRESSION	P=0.043*	P=0.451	(e)	P=0.119
COCH-ARM / FISHERS	P=0.042*	P=0.500	(e)	P=0.117
ORDER RESTRICTED	P=0.021*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.024*	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Angiectasis**

**LESION RATES**

OVERALL (a)	34/50 (68%)	34/50 (68%)	29/50 (58%)	34/50 (68%)
POLY-3 RATE (b)	34/47.02	34/46.30	29/42.45	34/47.45
POLY-3 PERCENT (g)	72.3%	73.4%	68.3%	71.7%
TERMINAL (d)	21/31 (68%)	23/32 (72%)	17/27 (63%)	20/30 (67%)
FIRST INCIDENCE	474	449	418	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.488	P=0.548N	P=0.564N	P=0.521
POLY 3	P=0.480N	P=0.545	P=0.426N	P=0.563N
POLY 1.5	P=0.520N	P=0.581	P=0.347N	P=0.583
POLY 6	P=0.430N	P=0.493	P=0.491N	P=0.529N
LOGISTIC REGRESSION	P=0.535N	P=0.575N	P=0.361N	P=0.569
COCH-ARM / FISHERS	P=0.490N	P=0.585N	P=0.204N	P=0.585N
ORDER RESTRICTED	P=0.589N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.592N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Cyst**

**LESION RATES**

OVERALL (a)	17/50 (34%)	21/50 (42%)	25/50 (50%)	16/50 (32%)
POLY-3 RATE (b)	17/45.69	21/44.58	25/41.55	16/45.69
POLY-3 PERCENT (g)	37.2%	47.1%	60.2%	35%
TERMINAL (d)	12/31 (39%)	17/32 (53%)	16/27 (59%)	11/30 (37%)
FIRST INCIDENCE	198	489	418	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.487N	P=0.304	P=0.031*	P=0.528N
POLY 3	P=0.405N	P=0.227	P=0.023*	P=0.500N
POLY 1.5	P=0.441N	P=0.245	P=0.032*	P=0.520N
POLY 6	P=0.355N	P=0.200	P=0.018*	P=0.473N
LOGISTIC REGRESSION	P=0.425N	P=0.268	P=0.057	P=0.495N
COCH-ARM / FISHERS	P=0.413N	P=0.268	P=0.078	P=0.500N
ORDER RESTRICTED	P=0.154N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.160N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	20/50 (40%)	13/50 (26%)	20/50 (40%)	20/50 (40%)
POLY-3 RATE (b)	20/45.73	13/42.87	20/40.07	20/44.89
POLY-3 PERCENT (g)	43.7%	30.3%	49.9%	44.6%
TERMINAL (d)	14/31 (45%)	11/32 (34%)	14/27 (52%)	17/30 (57%)
FIRST INCIDENCE	455	662	511	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.274	P=0.097N	P=0.354	P=0.535
POLY 3	P=0.319	P=0.135N	P=0.360	P=0.553
POLY 1.5	P=0.307	P=0.116N	P=0.426	P=0.551
POLY 6	P=0.336	P=0.163N	P=0.318	P=0.556
LOGISTIC REGRESSION	P=0.319	P=0.099N	P=0.457	P=0.575
COCH-ARM / FISHERS	P=0.336	P=0.101N	P=0.581N	P=0.581N
ORDER RESTRICTED	P=0.256	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.264	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Distalis  
 Pigmentation**

**LESION RATES**

OVERALL (a)	27/50 (54%)	27/50 (54%)	27/50 (54%)	30/50 (60%)
POLY-3 RATE (b)	27/46.78	27/46.43	27/42.21	30/46.40
POLY-3 PERCENT (g)	57.7%	58.2%	64%	64.7%
TERMINAL (d)	15/31 (48%)	17/32 (53%)	15/27 (56%)	18/30 (60%)
FIRST INCIDENCE	455	449	418	459

**STATISTICAL TESTS**

LIFE TABLE	P=0.271	P=0.554N	P=0.302	P=0.337
POLY 3	P=0.239	P=0.567	P=0.347	P=0.316
POLY 1.5	P=0.232	P=0.580N	P=0.415	P=0.305
POLY 6	P=0.262	P=0.541	P=0.304	P=0.335
LOGISTIC REGRESSION	P=0.264	P=0.579N	P=0.459	P=0.332
COCH-ARM / FISHERS	P=0.290	P=0.579N	P=0.579N	P=0.343
ORDER RESTRICTED	P=0.380	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.384	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Intermedia  
 Cyst**

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	2/42.99	0/42.43	0/37.18	5/44.03
POLY-3 PERCENT (g)	4.7%	0%	0%	11.4%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	3/30 (10%)
FIRST INCIDENCE	663	---	---	574

**STATISTICAL TESTS**

LIFE TABLE	P=0.042*	P=0.245N	P=0.278N	P=0.218
POLY 3	P=0.036*	P=0.240N	P=0.271N	P=0.225
POLY 1.5	P=0.036*	P=0.237N	P=0.259N	P=0.218
POLY 6	P=0.038*	P=0.245N	P=0.281N	P=0.234
LOGISTIC REGRESSION	P=0.039*	P=0.238N	P=0.263N	P=0.216
COCH-ARM / FISHERS	P=0.040*	P=0.247N	P=0.247N	P=0.218
ORDER RESTRICTED	P=0.012*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.015*	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Pituitary Gland: Pars Intermedia  
 Pigmentation**

**LESION RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/42.82	1/42.61	2/37.80	0/43.08
POLY-3 PERCENT (g)	4.7%	2.4%	5.3%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	1/27 (4%)	0/30 (0%)
FIRST INCIDENCE	719	680	531	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.215N	P=0.527N	P=0.624	P=0.258N
POLY 3	P=0.200N	P=0.502N	P=0.649	P=0.236N
POLY 1.5	P=0.203N	P=0.499N	P=0.663	P=0.238N
POLY 6	P=0.195N	P=0.507N	P=0.637	P=0.233N
LOGISTIC REGRESSION	P=0.202N	P=0.504N	P=0.677	P=0.231N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.153N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.160N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Spleen  
 Hematopoietic Cell Proliferation**

**LESION RATES**

OVERALL (a)	2/50 (4%)	3/50 (6%)	6/50 (12%)	2/49 (4%)
POLY-3 RATE (b)	2/43.40	3/44.15	6/38.85	2/42.20
POLY-3 PERCENT (g)	4.6%	6.8%	15.4%	4.7%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	3/27 (11%)	1/30 (3%)
FIRST INCIDENCE	609	490	505	713

**STATISTICAL TESTS**

LIFE TABLE	P=0.548	P=0.497	P=0.097	P=0.685N
POLY 3	P=0.538	P=0.508	P=0.099	P=0.684
POLY 1.5	P=0.533	P=0.508	P=0.109	P=0.682
POLY 6	P=0.543	P=0.505	P=0.092	P=0.686
LOGISTIC REGRESSION	P=0.576	P=0.421	P=0.145	P=0.687
COCH-ARM / FISHERS	P=0.547	P=0.500	P=0.134	P=0.684
ORDER RESTRICTED	P=0.282	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.290	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Stomach, Forestomach  
 Inflammation Chronic**

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	3/49 (6%)
POLY-3 RATE (b)	1/42.74	2/43.15	0/37.18	3/43.08
POLY-3 PERCENT (g)	2.3%	4.6%	0%	7%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	728 (T)	546	---	550

**STATISTICAL TESTS**

LIFE TABLE	P=0.247	P=0.496	P=0.528N	P=0.302
POLY 3	P=0.234	P=0.503	P=0.528N	P=0.308
POLY 1.5	P=0.231	P=0.504	P=0.519N	P=0.300
POLY 6	P=0.240	P=0.501	P=0.535N	P=0.318
LOGISTIC REGRESSION	P=0.241	P=0.492	(e)	P=0.302
COCH-ARM / FISHERS	P=0.235	P=0.500	P=0.500N	P=0.301
ORDER RESTRICTED	P=0.190	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.198	(e)	(e)	(e)



TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Forestomach: Epithelium  
 Hyperplasia

**LESION RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	3/49 (6%)
POLY-3 RATE (b)	2/42.74	0/42.43	0/37.18	3/43.08
POLY-3 PERCENT (g)	4.7%	0%	0%	7%
TERMINAL (d)	2/31 (7%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	728 (T)	---	---	550

**STATISTICAL TESTS**

LIFE TABLE	P=0.240	P=0.231N	P=0.269N	P=0.488
POLY 3	P=0.237	P=0.239N	P=0.269N	P=0.504
POLY 1.5	P=0.234	P=0.237N	P=0.259N	P=0.494
POLY 6	P=0.243	P=0.242N	P=0.278N	P=0.516
LOGISTIC REGRESSION	P=0.238	(e)	(e)	P=0.492
COCH-ARM / FISHERS	P=0.239	P=0.247N	P=0.247N	P=0.490
ORDER RESTRICTED	P=0.106	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.113	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Forestomach: Epithelium  
 Ulcer

**LESION RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	1/42.74	2/43.15	0/37.18	2/42.52
POLY-3 PERCENT (g)	2.3%	4.6%	0%	4.7%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	728 (T)	546	---	633

**STATISTICAL TESTS**

LIFE TABLE	P=0.467	P=0.496	P=0.528N	P=0.492
POLY 3	P=0.459	P=0.503	P=0.528N	P=0.498
POLY 1.5	P=0.456	P=0.504	P=0.519N	P=0.493
POLY 6	P=0.464	P=0.501	P=0.535N	P=0.505
LOGISTIC REGRESSION	P=0.463	P=0.492	(e)	P=0.492
COCH-ARM / FISHERS	P=0.462	P=0.500	P=0.500N	P=0.492
ORDER RESTRICTED	P=0.411	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.416	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Stomach, Glandular: Epithelium  
 Erosion

**LESION RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/42.74	0/42.43	0/37.18	0/42.14
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Thymus  
 Ectopic Parathyroid Gland

**LESION RATES**

OVERALL (a)	2/48 (4%)	6/47 (13%)	2/48 (4%)	1/43 (2%)
POLY-3 RATE (b)	2/41.09	6/40.52	2/35.18	1/36.08
POLY-3 PERCENT (g)	4.9%	14.8%	5.7%	2.8%
TERMINAL (d)	2/31 (7%)	5/30 (17%)	2/25 (8%)	1/23 (4%)
FIRST INCIDENCE	728 (T)	574	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.292N	P=0.124	P=0.616	P=0.604N
POLY 3	P=0.236N	P=0.126	P=0.637	P=0.545N
POLY 1.5	P=0.234N	P=0.129	P=0.657	P=0.546N
POLY 6	P=0.239N	P=0.122	P=0.619	P=0.546N
LOGISTIC REGRESSION	P=0.239N	P=0.121	P=0.616	P=0.604N
COCH-ARM / FISHERS	P=0.219N	P=0.127	P=0.692N	P=0.542N
ORDER RESTRICTED	P=0.178N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.192N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland  
 Ultimobranchial Cyst**

**LESION RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/42.74	1/42.99	0/37.18	1/43.08
POLY-3 PERCENT (g)	0%	2.3%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	---	554	---	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.396	P=0.500	(e)	P=0.493
POLY 3	P=0.405	P=0.501	(e)	P=0.502
POLY 1.5	P=0.402	P=0.502	(e)	P=0.499
POLY 6	P=0.408	P=0.499	(e)	P=0.504
LOGISTIC REGRESSION	P=0.411	P=0.438	(e)	P=0.493
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
ORDER RESTRICTED	P=0.253	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.259	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland: C-Cell  
 Hyperplasia**

**LESION RATES**

OVERALL (a)	14/50 (28%)	13/50 (26%)	13/50 (26%)	13/50 (26%)
POLY-3 RATE (b)	14/44.21	13/43.56	13/37.35	13/43.56
POLY-3 PERCENT (g)	31.7%	29.8%	34.8%	29.9%
TERMINAL (d)	10/31 (32%)	9/32 (28%)	11/27 (41%)	11/30 (37%)
FIRST INCIDENCE	455	602	694	602

**STATISTICAL TESTS**

LIFE TABLE	P=0.525N	P=0.486N	P=0.498	P=0.536N
POLY 3	P=0.503N	P=0.519N	P=0.474	P=0.519N
POLY 1.5	P=0.505N	P=0.505N	P=0.546	P=0.522N
POLY 6	P=0.498N	P=0.537N	P=0.410	P=0.515N
LOGISTIC REGRESSION	P=0.460N	P=0.504N	P=0.480	P=0.493N
COCH-ARM / FISHERS	P=0.468N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.640N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.642N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006  
 Time Report Reqsted: 8:28:38  
 First Dose M/F: 03/06/02 / 03/07/02  
 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

**Thyroid Gland: Follicle  
 Cyst**

**LESION RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/42.74	0/42.43	0/37.18	1/43.08
POLY-3 PERCENT (g)	2.3%	0%	0%	2.3%
TERMINAL (d)	1/31 (3%)	0/32 (0%)	0/27 (0%)	1/30 (3%)
FIRST INCIDENCE	728 (T)	---	---	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.582	P=0.494N	P=0.528N	P=0.755
POLY 3	P=0.594	P=0.501N	P=0.528N	P=0.759N
POLY 1.5	P=0.592	P=0.500N	P=0.519N	P=0.760
POLY 6	P=0.599	P=0.505N	P=0.535N	P=0.756N
LOGISTIC REGRESSION	P=0.582	(e)	(e)	P=0.755
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.405N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.412N	(e)	(e)	(e)

TDMS No. 95011-07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 5-(HYDROXYMETHYL)-2-FURFURAL  
 CAS Number: 67-47-0  
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Date Report Reqsted: 09/01/2006  
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 Lab: BAT

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

DOSE	Females			
	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG

Uterus: Endometrium  
 Cyst

**LESION RATES**

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/42.74	2/42.43	2/37.18	1/42.14
POLY-3 PERCENT (g)	0%	4.7%	5.4%	2.4%
TERMINAL (d)	0/31 (0%)	2/32 (6%)	2/27 (7%)	1/30 (3%)
FIRST INCIDENCE	---	728 (T)	728 (T)	728 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.449	P=0.245	P=0.208	P=0.493
POLY 3	P=0.467	P=0.235	P=0.207	P=0.497
POLY 1.5	P=0.460	P=0.238	P=0.217	P=0.495
POLY 6	P=0.475	P=0.231	P=0.200	P=0.500
LOGISTIC REGRESSION (e)	P=0.245	P=0.245	P=0.208	P=0.493
COCH-ARM / FISHERS	P=0.462	P=0.247	P=0.247	P=0.495
ORDER RESTRICTED	P=0.207	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.213	(e)	(e)	(e)



**TDMS No.** 95011-07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Unknown, U.

**Date Report Reqsted:** 09/01/2006  
**Time Report Reqsted:** 8:28:38  
**First Dose M/F:** 03/06/02 / 03/07/02  
**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.
  - (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. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
  - (e) Value of Statistic cannot be computed.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.  
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*