

**TDMS No.** 97003 - 08  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Reqsted:** 08/21/2007  
**Time Report Reqsted:** 13:25:49  
**First Dose M/F:** 06/25/02 / 06/24/02  
**Lab:** BAT

F\_1.Rev.1\_M3

**C Number:** C97003D  
**Lock Date:** 01/31/2005  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**TDMSE Version:** 1.8.0

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex  
Adrenal Medulla  
Bone Marrow  
Brain  
Heart  
Islets, Pancreatic  
Kidney  
Liver  
Lung  
Ovary  
Pituitary Gland  
Salivary Glands  
Spleen  
Testes  
Thymus  
Thyroid Gland

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF 1,2-Dibromo-2,4-dicyanobutane

### MALE MICE

#### Organ

Liver

Lung

All Organs

#### Morphology

Hepatocellular Adenoma  
Hepatocellular Carcinoma or Hepatocellular Adenoma  
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma  
Alveolar/Bronchiolar Carcinoma  
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma  
Hemangiosarcoma  
Hemangiosarcoma or Hemangioma  
Benign Tumors  
Malignant Tumors  
Malignant and Benign Tumors

### FEMALE MICE

#### Organ

Liver

Uterus

All Organs

#### Morphology

Hepatocellular Adenoma  
Hepatocellular Carcinoma or Hepatoblastoma  
Hepatocellular Carcinoma or Hepatocellular Adenoma  
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma  
Hemangioma  
Hemangioma  
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or  
Undifferentiated Cell Type  
Benign Tumors  
Malignant Tumors  
Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Cortex  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	6/50 (12%)	2/50 (4%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	6/45.16	2/43.31	3/46.36	4/45.68
POLY-3 PERCENT (g)	13.3%	4.6%	6.5%	8.8%
TERMINAL (d)	5/34 (15%)	1/30 (3%)	3/39 (8%)	4/40 (10%)
FIRST INCIDENCE	710	701	730 (T)	730 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.414N	P=0.178N	P=0.182N	P=0.274N
POLY 3	P=0.523N	P=0.146N	P=0.229N	P=0.362N
POLY 1.5	P=0.532N	P=0.142N	P=0.236N	P=0.368N
POLY 6	P=0.507N	P=0.149N	P=0.218N	P=0.348N
LOGISTIC REGRESSION	P=0.464N	P=0.157N	P=0.193N	P=0.305N
COCH-ARM / FISHERS	P=0.543N	P=0.134N	P=0.243N	P=0.370N
ORDER RESTRICTED	P=0.196N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.206N	(e)	(e)	(e)

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	1/43.24	0/46.36	0/45.68
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	699	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.558N	P=0.495	(e)	(e)
POLY 3	P=0.578N	P=0.492	(e)	(e)
POLY 1.5	P=0.577N	P=0.493	(e)	(e)
POLY 6	P=0.579N	P=0.490	(e)	(e)
LOGISTIC REGRESSION	P=0.575N	P=0.495	(e)	(e)
COCH-ARM / FISHERS	P=0.575N	P=0.495	(e)	(e)
ORDER RESTRICTED	P=0.372N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.382N	(e)	(e)	(e)

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Medulla  
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.5	1/43.24	0/46.36	0/45.68
POLY-3 PERCENT (g)	2.2%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	610	699	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.294N	P=0.752	P=0.496N	P=0.504N
POLY 3	P=0.302N	P=0.749	P=0.496N	P=0.499N
POLY 1.5	P=0.302N	P=0.752	P=0.498N	P=0.500N
POLY 6	P=0.301N	P=0.746	P=0.493N	P=0.496N
LOGISTIC REGRESSION	P=0.296N	P=0.742N	P=0.481N	P=0.442N
COCH-ARM / FISHERS	P=0.301N	P=0.747	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.240N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.249N	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Bone Marrow  
 Hemangiosarcoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	4/50 (8%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.08	4/43.92	1/46.36	2/46.39
POLY-3 PERCENT (g)	2.2%	9.1%	2.2%	4.3%
TERMINAL (d)	1/34 (3%)	1/30 (3%)	1/39 (3%)	0/40 (0%)
FIRST INCIDENCE	730 (T)	632	730 (T)	568

**STATISTICAL TESTS**

LIFE TABLE	P=0.516N	P=0.164	P=0.731N	P=0.525
POLY 3	P=0.564N	P=0.170	P=0.754N	P=0.510
POLY 1.5	P=0.569N	P=0.173	P=0.757N	P=0.504
POLY 6	P=0.552N	P=0.170	P=0.749N	P=0.521
LOGISTIC REGRESSION	P=0.586N	P=0.181	P=0.731N	P=0.522
COCH-ARM / FISHERS	P=0.573N	P=0.181	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.396	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.407	(e)	(e)	(e)

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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Harderian Gland  
 Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	7/50 (14%)	6/50 (12%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	7/46.32	6/43.28	5/46.98	6/45.68
POLY-3 PERCENT (g)	15.1%	13.9%	10.6%	13.1%
TERMINAL (d)	4/34 (12%)	5/30 (17%)	2/39 (5%)	6/40 (15%)
FIRST INCIDENCE	529	708	627	730 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.366N	P=0.581N	P=0.317N	P=0.409N
POLY 3	P=0.490N	P=0.552N	P=0.369N	P=0.511N
POLY 1.5	P=0.495N	P=0.533N	P=0.375N	P=0.509N
POLY 6	P=0.477N	P=0.574N	P=0.357N	P=0.506N
LOGISTIC REGRESSION	P=0.489N	P=0.513N	P=0.402N	P=0.500N
COCH-ARM / FISHERS	P=0.500N	P=0.500N	P=0.380N	P=0.500N
ORDER RESTRICTED	P=0.511N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.516N	(e)	(e)	(e)



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Harderian Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	2/46.36	0/45.68
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	2/39 (5%)	0/40 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.650N	(e)	P=0.269	(e)
POLY 3	P=0.688N	(e)	P=0.243	(e)
POLY 1.5	P=0.693N	(e)	P=0.240	(e)
POLY 6	P=0.678N	(e)	P=0.249	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.269	(e)
COCH-ARM / FISHERS	P=0.697N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.252	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.262	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

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**Harderian Gland  
 Carcinoma or Adenoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	7/50 (14%)	6/50 (12%)	7/50 (14%)	6/50 (12%)
POLY-3 RATE (b)	7/46.32	6/43.28	7/46.98	6/45.68
POLY-3 PERCENT (g)	15.1%	13.9%	14.9%	13.1%
TERMINAL (d)	4/34 (12%)	5/30 (17%)	4/39 (10%)	6/40 (15%)
FIRST INCIDENCE	529	708	627	730 (T)

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**STATISTICAL TESTS**

LIFE TABLE	P=0.347N	P=0.581N	P=0.527N	P=0.409N
POLY 3	P=0.477N	P=0.552N	P=0.602N	P=0.511N
POLY 1.5	P=0.483N	P=0.533N	P=0.608N	P=0.509N
POLY 6	P=0.463N	P=0.574N	P=0.589N	P=0.506N
LOGISTIC REGRESSION	P=0.474N	P=0.513N	P=0.595	P=0.500N
COCH-ARM / FISHERS	P=0.489N	P=0.500N	P=0.613N	P=0.500N
ORDER RESTRICTED	P=0.614N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.615N	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Islets, Pancreatic  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.08	1/43.2	1/46.36	2/45.68
POLY-3 PERCENT (g)	0%	2.3%	2.2%	4.4%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	1/39 (3%)	2/40 (5%)
FIRST INCIDENCE	---	730 (T)	730 (T)	730 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.249	P=0.475	P=0.527	P=0.275
POLY 3	P=0.201	P=0.491	P=0.506	P=0.240
POLY 1.5	P=0.198	P=0.494	P=0.503	P=0.238
POLY 6	P=0.208	P=0.489	P=0.510	P=0.245
LOGISTIC REGRESSION	(e)	P=0.475	P=0.527	P=0.275
COCH-ARM / FISHERS	P=0.194	P=0.500	P=0.500	P=0.247
ORDER RESTRICTED	P=0.119	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.129	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Kidney: Renal Tubule  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	2/46.36	0/45.68
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	2/39 (5%)	0/40 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.650N	(e)	P=0.269	(e)
POLY 3	P=0.688N	(e)	P=0.243	(e)
POLY 1.5	P=0.693N	(e)	P=0.240	(e)
POLY 6	P=0.678N	(e)	P=0.249	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.269	(e)
COCH-ARM / FISHERS	P=0.697N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.252	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.262	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hemangiosarcoma

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	6/50 (12%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/45.08	6/44.43	1/46.79	1/45.86
POLY-3 PERCENT (g)	2.2%	13.5%	2.1%	2.2%
TERMINAL (d)	1/34 (3%)	2/30 (7%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	730 (T)	567	606	683

**STATISTICAL TESTS**

LIFE TABLE	P=0.173N	P=0.051	P=0.743N	P=0.731N
POLY 3	P=0.194N	P=0.053	P=0.752N	P=0.757N
POLY 1.5	P=0.197N	P=0.054	P=0.756N	P=0.759N
POLY 6	P=0.186N	P=0.054	P=0.746N	P=0.751N
LOGISTIC REGRESSION	P=0.212N	P=0.064	P=0.757	P=0.762N
COCH-ARM / FISHERS	P=0.201N	P=0.056	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.160N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatoblastoma

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/45.08	1/43.2	2/46.36	2/45.68
POLY-3 PERCENT (g)	4.4%	2.3%	4.3%	4.4%
TERMINAL (d)	2/34 (6%)	1/30 (3%)	2/39 (5%)	2/40 (5%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.617	P=0.544N	P=0.645N	P=0.635N
POLY 3	P=0.546	P=0.515N	P=0.684N	P=0.689N
POLY 1.5	P=0.538	P=0.510N	P=0.689N	P=0.692N
POLY 6	P=0.560	P=0.520N	P=0.676N	P=0.681N
LOGISTIC REGRESSION	P=0.617	P=0.544N	P=0.645N	P=0.635N
COCH-ARM / FISHERS	P=0.530	P=0.500N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.630	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.630	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	35/50 (70%)	35/50 (70%)	33/50 (66%)	27/50 (54%)
POLY-3 RATE (b)	35/47.43	35/46.05	33/48.13	27/48.21
POLY-3 PERCENT (g)	73.8%	76%	68.6%	56%
TERMINAL (d)	26/34 (77%)	25/30 (83%)	27/39 (69%)	22/40 (55%)
FIRST INCIDENCE	529	483	606	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.003N**	P=0.313	P=0.174N	P=0.023N*
POLY 3	P=0.014N*	P=0.497	P=0.365N	P=0.049N*
POLY 1.5	P=0.020N*	P=0.523	P=0.392N	P=0.059N
POLY 6	P=0.009N**	P=0.483	P=0.320N	P=0.037N*
LOGISTIC REGRESSION	P=0.026N*	P=0.458	P=0.358N	P=0.073N
COCH-ARM / FISHERS	P=0.035N*	P=0.586N	P=0.415N	P=0.074N
ORDER RESTRICTED	P=0.027N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.022N*	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma

**TUMOR RATES**

OVERALL (a)	17/50 (34%)	10/50 (20%)	14/50 (28%)	10/50 (20%)
POLY-3 RATE (b)	17/48.51	10/44.37	14/49.25	10/47.37
POLY-3 PERCENT (g)	35.1%	22.5%	28.4%	21.1%
TERMINAL (d)	7/34 (21%)	4/30 (13%)	7/39 (18%)	7/40 (18%)
FIRST INCIDENCE	529	624	463	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.110N	P=0.167N	P=0.268N	P=0.073N
POLY 3	P=0.153N	P=0.135N	P=0.314N	P=0.097N
POLY 1.5	P=0.159N	P=0.116N	P=0.323N	P=0.094N
POLY 6	P=0.144N	P=0.159N	P=0.301N	P=0.099N
LOGISTIC REGRESSION	P=0.194N	P=0.067N	P=0.477N	P=0.079N
COCH-ARM / FISHERS	P=0.172N	P=0.088N	P=0.333N	P=0.088N
ORDER RESTRICTED	P=0.090N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.100N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma or Hepatoblastoma

TUMOR RATES

OVERALL (a)	19/50 (38%)	11/50 (22%)	16/50 (32%)	12/50 (24%)
POLY-3 RATE (b)	19/48.51	11/44.37	16/49.25	12/47.37
POLY-3 PERCENT (g)	39.2%	24.8%	32.5%	25.3%
TERMINAL (d)	9/34 (27%)	5/30 (17%)	9/39 (23%)	9/40 (23%)
FIRST INCIDENCE	529	624	463	501

STATISTICAL TESTS

LIFE TABLE	P=0.122N	P=0.138N	P=0.259N	P=0.073N
POLY 3	P=0.186N	P=0.102N	P=0.317N	P=0.108N
POLY 1.5	P=0.194N	P=0.086N	P=0.327N	P=0.104N
POLY 6	P=0.176N	P=0.123N	P=0.302N	P=0.110N
LOGISTIC REGRESSION	P=0.234N	P=0.052N	P=0.463N	P=0.093N
COCH-ARM / FISHERS	P=0.210N	P=0.063N	P=0.338N	P=0.097N
ORDER RESTRICTED	P=0.103N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.115N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma or Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	41/50 (82%)	39/50 (78%)	37/50 (74%)	30/50 (60%)
POLY-3 RATE (b)	41/49.46	39/46.33	37/49.81	30/48.21
POLY-3 PERCENT (g)	82.9%	84.2%	74.3%	62.2%
TERMINAL (d)	27/34 (79%)	26/30 (87%)	28/39 (72%)	25/40 (63%)
FIRST INCIDENCE	529	483	463	501

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.432	P=0.113N	P=0.007N**
POLY 3	P=0.003N**	P=0.544	P=0.210N	P=0.016N*
POLY 1.5	P=0.004N**	P=0.577N	P=0.221N	P=0.014N*
POLY 6	P=0.003N**	P=0.444	P=0.196N	P=0.019N*
LOGISTIC REGRESSION	P=0.005N**	P=0.517N	P=0.279N	P=0.014N*
COCH-ARM / FISHERS	P=0.006N**	P=0.402N	P=0.235N	P=0.013N*
ORDER RESTRICTED	P=0.007N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.006N**	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	41/50 (82%)	39/50 (78%)	37/50 (74%)	31/50 (62%)
POLY-3 RATE (b)	41/49.46	39/46.33	37/49.81	31/48.21
POLY-3 PERCENT (g)	82.9%	84.2%	74.3%	64.3%
TERMINAL (d)	27/34 (79%)	26/30 (87%)	28/39 (72%)	26/40 (65%)
FIRST INCIDENCE	529	483	463	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.002N**	P=0.432	P=0.113N	P=0.011N*
POLY 3	P=0.007N**	P=0.544	P=0.210N	P=0.028N*
POLY 1.5	P=0.008N**	P=0.577N	P=0.221N	P=0.024N*
POLY 6	P=0.007N**	P=0.444	P=0.196N	P=0.032N*
LOGISTIC REGRESSION	P=0.010N**	P=0.517N	P=0.279N	P=0.023N*
COCH-ARM / FISHERS	P=0.012N*	P=0.402N	P=0.235N	P=0.022N*
ORDER RESTRICTED	P=0.014N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.012N*	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocholangiocarcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.08	2/43.38	0/46.36	1/45.68
POLY-3 PERCENT (g)	0%	4.6%	0%	2.2%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	0/39 (0%)	1/40 (3%)
FIRST INCIDENCE	---	681	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.665	P=0.223	(e)	P=0.532
POLY 3	P=0.623	P=0.229	(e)	P=0.503
POLY 1.5	P=0.621	P=0.231	(e)	P=0.501
POLY 6	P=0.628	P=0.226	(e)	P=0.507
LOGISTIC REGRESSION	P=0.631	P=0.230	(e)	P=0.532
COCH-ARM / FISHERS	P=0.622	P=0.247	(e)	P=0.500
ORDER RESTRICTED	P=0.323	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.334	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Lung  
 Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	10/50 (20%)	6/50 (12%)	16/50 (32%)	7/50 (14%)
POLY-3 RATE (b)	10/45.42	6/43.86	16/47.1	7/46.78
POLY-3 PERCENT (g)	22%	13.7%	34%	15%
TERMINAL (d)	7/34 (21%)	5/30 (17%)	12/39 (31%)	4/40 (10%)
FIRST INCIDENCE	665	506	630	509

**STATISTICAL TESTS**

LIFE TABLE	P=0.219N	P=0.291N	P=0.233	P=0.217N
POLY 3	P=0.312N	P=0.226N	P=0.146	P=0.273N
POLY 1.5	P=0.339N	P=0.220N	P=0.136	P=0.286N
POLY 6	P=0.270N	P=0.233N	P=0.165	P=0.250N
LOGISTIC REGRESSION	P=0.355N	P=0.233N	P=0.154	P=0.296N
COCH-ARM / FISHERS	P=0.373N	P=0.207N	P=0.127	P=0.298N
ORDER RESTRICTED	P=0.245N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.258N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Lung  
 Alveolar/Bronchiolar Carcinoma**

**TUMOR RATES**

OVERALL (a)	6/50 (12%)	7/50 (14%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	6/45.62	7/44.16	4/46.42	2/46.34
POLY-3 PERCENT (g)	13.2%	15.9%	8.6%	4.3%
TERMINAL (d)	4/34 (12%)	4/30 (13%)	3/39 (8%)	1/40 (3%)
FIRST INCIDENCE	610	563	715	505

**STATISTICAL TESTS**

LIFE TABLE	P=0.042N*	P=0.432	P=0.300N	P=0.108N
POLY 3	P=0.059N	P=0.475	P=0.358N	P=0.128N
POLY 1.5	P=0.062N	P=0.482	P=0.364N	P=0.131N
POLY 6	P=0.054N	P=0.470	P=0.348N	P=0.121N
LOGISTIC REGRESSION	P=0.067N	P=0.493	P=0.353N	P=0.130N
COCH-ARM / FISHERS	P=0.065N	P=0.500	P=0.370N	P=0.134N
ORDER RESTRICTED	P=0.080N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.089N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	15/50 (30%)	13/50 (26%)	20/50 (40%)	9/50 (18%)
POLY-3 RATE (b)	15/45.95	13/44.83	20/47.16	9/47.45
POLY-3 PERCENT (g)	32.7%	29%	42.4%	19%
TERMINAL (d)	10/34 (29%)	9/30 (30%)	15/39 (39%)	5/40 (13%)
FIRST INCIDENCE	610	506	630	505

**STATISTICAL TESTS**

LIFE TABLE	P=0.043N*	P=0.541N	P=0.363	P=0.081N
POLY 3	P=0.071N	P=0.441N	P=0.223	P=0.099N
POLY 1.5	P=0.084N	P=0.433N	P=0.211	P=0.109N
POLY 6	P=0.054N	P=0.448N	P=0.246	P=0.085N
LOGISTIC REGRESSION	P=0.100N	P=0.445N	P=0.238	P=0.121N
COCH-ARM / FISHERS	P=0.105N	P=0.412N	P=0.201	P=0.121N
ORDER RESTRICTED	P=0.067N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.077N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

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**Pituitary Gland: Pars Distalis or Unspecified Site  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	0/45.96	0/45.68
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (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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TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Pituitary Gland: Pars Intermedia  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	1/43.2	0/45.96	0/45.68
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	730 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.542N	P=0.475	(e)	(e)
POLY 3	P=0.583N	P=0.491	(e)	(e)
POLY 1.5	P=0.580N	P=0.494	(e)	(e)
POLY 6	P=0.585N	P=0.489	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.475	(e)	(e)
COCH-ARM / FISHERS	P=0.576N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.372N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.382N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.08	0/43.2	0/46.36	1/46.02
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	634

**STATISTICAL TESTS**

LIFE TABLE	P=0.223	(e)	(e)	P=0.509
POLY 3	P=0.221	(e)	(e)	P=0.504
POLY 1.5	P=0.218	(e)	(e)	P=0.502
POLY 6	P=0.226	(e)	(e)	P=0.510
LOGISTIC REGRESSION	P=0.199	(e)	(e)	P=0.533
COCH-ARM / FISHERS	P=0.214	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.122	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.134	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

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**Skin  
 Fibrosarcoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.08	0/43.2	0/46.36	1/46.02
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	634

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**STATISTICAL TESTS**

LIFE TABLE	P=0.223	(e)	(e)	P=0.509
POLY 3	P=0.221	(e)	(e)	P=0.504
POLY 1.5	P=0.218	(e)	(e)	P=0.502
POLY 6	P=0.226	(e)	(e)	P=0.510
LOGISTIC REGRESSION	P=0.199	(e)	(e)	P=0.533
COCH-ARM / FISHERS	P=0.214	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.122	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.134	(e)	(e)	(e)

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TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.08	0/43.2	0/46.36	1/46.02
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	634

**STATISTICAL TESTS**

LIFE TABLE	P=0.223	(e)	(e)	P=0.509
POLY 3	P=0.221	(e)	(e)	P=0.504
POLY 1.5	P=0.218	(e)	(e)	P=0.502
POLY 6	P=0.226	(e)	(e)	P=0.510
LOGISTIC REGRESSION	P=0.199	(e)	(e)	P=0.533
COCH-ARM / FISHERS	P=0.214	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.122	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.134	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Hemangiosarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/45.28	1/43.2	0/46.36	1/45.86
POLY-3 PERCENT (g)	4.4%	2.3%	0%	2.2%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	701	730 (T)	---	683

**STATISTICAL TESTS**

LIFE TABLE	P=0.449N	P=0.538N	P=0.217N	P=0.462N
POLY 3	P=0.493N	P=0.516N	P=0.232N	P=0.496N
POLY 1.5	P=0.496N	P=0.511N	P=0.235N	P=0.499N
POLY 6	P=0.488N	P=0.523N	P=0.228N	P=0.488N
LOGISTIC REGRESSION	P=0.496N	P=0.518N	P=0.237N	P=0.500N
COCH-ARM / FISHERS	P=0.500N	P=0.500N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.220N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.230N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

---

**Skin  
 Sarcoma**

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	0/46.36	0/45.68
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	0/39 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---

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**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. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Spleen  
 Hemangiosarcoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	2/49 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/45.08	2/43.74	2/46.36	1/46.2
POLY-3 PERCENT (g)	2.2%	4.6%	4.3%	2.2%
TERMINAL (d)	1/34 (3%)	0/30 (0%)	2/39 (5%)	0/40 (0%)
FIRST INCIDENCE	730 (T)	632	730 (T)	568

**STATISTICAL TESTS**

LIFE TABLE	P=0.474N	P=0.480	P=0.548	P=0.747N
POLY 3	P=0.507N	P=0.489	P=0.510	P=0.755N
POLY 1.5	P=0.513N	P=0.490	P=0.505	P=0.758N
POLY 6	P=0.495N	P=0.489	P=0.518	P=0.749N
LOGISTIC REGRESSION	P=0.518N	P=0.515	P=0.548	P=0.745N
COCH-ARM / FISHERS	P=0.518N	P=0.492	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.539N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.544N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Testes  
 Adenoma

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/45.08	2/43.41	2/46.42	2/45.68
POLY-3 PERCENT (g)	4.4%	4.6%	4.3%	4.4%
TERMINAL (d)	2/34 (6%)	1/30 (3%)	1/39 (3%)	2/40 (5%)
FIRST INCIDENCE	730 (T)	674	715	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.532N	P=0.657	P=0.644N	P=0.635N
POLY 3	P=0.610N	P=0.680	P=0.683N	P=0.689N
POLY 1.5	P=0.615N	P=0.684	P=0.688N	P=0.692N
POLY 6	P=0.600N	P=0.678	P=0.675N	P=0.681N
LOGISTIC REGRESSION	P=0.590N	P=0.676	P=0.664N	P=0.635N
COCH-ARM / FISHERS	P=0.621	P=0.691N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.732N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.731N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Thyroid Gland: Follicular Cell  
 Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	1/43.2	2/46.36	0/45.68
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%
TERMINAL (d)	0/34 (0%)	1/30 (3%)	2/39 (5%)	0/40 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.457N	P=0.475	P=0.269	(e)
POLY 3	P=0.507N	P=0.491	P=0.243	(e)
POLY 1.5	P=0.511N	P=0.494	P=0.240	(e)
POLY 6	P=0.497N	P=0.489	P=0.249	(e)
LOGISTIC REGRESSION	(e)	P=0.475	P=0.269	(e)
COCH-ARM / FISHERS	P=0.515N	P=0.500	P=0.247	(e)
ORDER RESTRICTED	P=0.321N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.332N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

All Organs  
 Hemangioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	1/46.36	0/45.68
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	1/39 (3%)	0/40 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.755N	(e)	P=0.527	(e)
POLY 3	P=0.781N	(e)	P=0.506	(e)
POLY 1.5	P=0.783N	(e)	P=0.503	(e)
POLY 6	P=0.776N	(e)	P=0.510	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.527	(e)
COCH-ARM / FISHERS	P=0.786N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.387	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.396	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

All Organs  
 Hemangiosarcoma

TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	9/50 (18%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	6/45.28	9/44.54	6/46.92	2/46.39
POLY-3 PERCENT (g)	13.3%	20.2%	12.8%	4.3%
TERMINAL (d)	4/34 (12%)	4/30 (13%)	4/39 (10%)	0/40 (0%)
FIRST INCIDENCE	701	567	606	568

STATISTICAL TESTS

LIFE TABLE	P=0.028N*	P=0.233	P=0.531N	P=0.107N
POLY 3	P=0.037N*	P=0.274	P=0.595N	P=0.125N
POLY 1.5	P=0.040N*	P=0.276	P=0.607N	P=0.130N
POLY 6	P=0.032N*	P=0.276	P=0.576N	P=0.116N
LOGISTIC REGRESSION	P=0.045N*	P=0.272	P=0.605N	P=0.134N
COCH-ARM / FISHERS	P=0.044N*	P=0.288	P=0.620N	P=0.134N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.059N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Hemangiosarcoma or Hemangioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	9/50 (18%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	6/45.28	9/44.54	6/46.92	2/46.39
POLY-3 PERCENT (g)	13.3%	20.2%	12.8%	4.3%
TERMINAL (d)	4/34 (12%)	4/30 (13%)	4/39 (10%)	0/40 (0%)
FIRST INCIDENCE	701	567	606	568

**STATISTICAL TESTS**

LIFE TABLE	P=0.028N*	P=0.233	P=0.531N	P=0.107N
POLY 3	P=0.037N*	P=0.274	P=0.595N	P=0.125N
POLY 1.5	P=0.040N*	P=0.276	P=0.607N	P=0.130N
POLY 6	P=0.032N*	P=0.276	P=0.576N	P=0.116N
LOGISTIC REGRESSION	P=0.045N*	P=0.272	P=0.605N	P=0.134N
COCH-ARM / FISHERS	P=0.044N*	P=0.288	P=0.620N	P=0.134N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.059N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Histiocytic Sarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.08	0/43.2	2/46.36	0/45.68
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/34 (0%)	0/30 (0%)	2/39 (5%)	0/40 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.650N	(e)	P=0.269	(e)
POLY 3	P=0.688N	(e)	P=0.243	(e)
POLY 1.5	P=0.693N	(e)	P=0.240	(e)
POLY 6	P=0.678N	(e)	P=0.249	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.269	(e)
COCH-ARM / FISHERS	P=0.697N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.252	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.262	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/45.08	2/43.28	3/46.42	3/46
POLY-3 PERCENT (g)	2.2%	4.6%	6.5%	6.5%
TERMINAL (d)	1/34 (3%)	1/30 (3%)	2/39 (5%)	1/40 (3%)
FIRST INCIDENCE	730 (T)	708	715	659

**STATISTICAL TESTS**

LIFE TABLE	P=0.376	P=0.461	P=0.356	P=0.354
POLY 3	P=0.305	P=0.486	P=0.316	P=0.312
POLY 1.5	P=0.296	P=0.490	P=0.311	P=0.308
POLY 6	P=0.322	P=0.482	P=0.325	P=0.323
LOGISTIC REGRESSION	P=0.306	P=0.475	P=0.336	P=0.307
COCH-ARM / FISHERS	P=0.287	P=0.500	P=0.309	P=0.309
ORDER RESTRICTED	P=0.274	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.285	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Benign Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	40/50 (80%)	40/50 (80%)	41/50 (82%)	37/50 (74%)
POLY-3 RATE (b)	40/47.85	40/47.05	41/48.32	37/48.47
POLY-3 PERCENT (g)	83.6%	85%	84.9%	76.3%
TERMINAL (d)	30/34 (88%)	26/30 (87%)	33/39 (85%)	31/40 (78%)
FIRST INCIDENCE	529	483	606	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.022N*	P=0.290	P=0.285N	P=0.084N
POLY 3	P=0.142N	P=0.538	P=0.546	P=0.255N
POLY 1.5	P=0.176N	P=0.548	P=0.518	P=0.284N
POLY 6	P=0.108N	P=0.555	P=0.606	P=0.212N
LOGISTIC REGRESSION	P=0.192N	P=0.447	P=0.581	P=0.318N
COCH-ARM / FISHERS	P=0.236N	P=0.598N	P=0.500	P=0.318N
ORDER RESTRICTED	P=0.213N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.223N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Malignant Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	27/50 (54%)	30/50 (60%)	32/50 (64%)	20/50 (40%)
POLY-3 RATE (b)	27/49	30/47.4	32/50	20/49.07
POLY-3 PERCENT (g)	55.1%	63.3%	64%	40.8%
TERMINAL (d)	15/34 (44%)	14/30 (47%)	21/39 (54%)	12/40 (30%)
FIRST INCIDENCE	529	525	463	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.017N*	P=0.244	P=0.444	P=0.084N
POLY 3	P=0.024N*	P=0.270	P=0.243	P=0.110N
POLY 1.5	P=0.026N*	P=0.288	P=0.227	P=0.113N
POLY 6	P=0.021N*	P=0.267	P=0.270	P=0.103N
LOGISTIC REGRESSION	P=0.041N*	P=0.376	P=0.125	P=0.129N
COCH-ARM / FISHERS	P=0.033N*	P=0.343	P=0.208	P=0.115N
ORDER RESTRICTED	P=0.030N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034N*	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	45/50 (90%)	47/50 (94%)	48/50 (96%)	43/50 (86%)
POLY-3 RATE (b)	45/49.46	47/49.08	48/50	43/49.73
POLY-3 PERCENT (g)	91%	95.8%	96%	86.5%
TERMINAL (d)	31/34 (91%)	28/30 (93%)	37/39 (95%)	34/40 (85%)
FIRST INCIDENCE	529	483	463	501

**STATISTICAL TESTS**

LIFE TABLE	P=0.023N*	P=0.182	P=0.402N	P=0.122N
POLY 3	P=0.107N	P=0.286	P=0.267	P=0.344N
POLY 1.5	P=0.119N	P=0.287	P=0.243	P=0.360N
POLY 6	P=0.099N	P=0.320	P=0.310	P=0.322N
LOGISTIC REGRESSION	P=0.153N	P=0.282	P=0.212	P=0.386N
COCH-ARM / FISHERS	P=0.158N	P=0.357	P=0.218	P=0.380N
ORDER RESTRICTED	P=0.103N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.111N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Cortex  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.17	0/45.72	1/44.97	0/43.89
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	644	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.797N	(e)	P=0.510	(e)
POLY 3	P=0.789N	(e)	P=0.504	(e)
POLY 1.5	P=0.788N	(e)	P=0.502	(e)
POLY 6	P=0.791N	(e)	P=0.505	(e)
LOGISTIC REGRESSION	P=0.780N	(e)	P=0.476	(e)
COCH-ARM / FISHERS	P=0.786N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.385	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.393	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.71	1/45.72	0/44.66	1/43.89
POLY-3 PERCENT (g)	4.5%	2.2%	0%	2.3%
TERMINAL (d)	1/33 (3%)	1/36 (3%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	563	729 (T)	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.494N	P=0.477N	P=0.250N	P=0.486N
POLY 3	P=0.506N	P=0.492N	P=0.237N	P=0.506N
POLY 1.5	P=0.503N	P=0.496N	P=0.237N	P=0.504N
POLY 6	P=0.509N	P=0.488N	P=0.239N	P=0.510N
LOGISTIC REGRESSION	P=0.497N	P=0.514N	P=0.258N	P=0.499N
COCH-ARM / FISHERS	P=0.500N	P=0.500N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.230N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.240N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Adrenal Medulla  
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.71	1/45.72	0/44.66	1/43.89
POLY-3 PERCENT (g)	4.5%	2.2%	0%	2.3%
TERMINAL (d)	1/33 (3%)	1/36 (3%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	563	729 (T)	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.494N	P=0.477N	P=0.250N	P=0.486N
POLY 3	P=0.506N	P=0.492N	P=0.237N	P=0.506N
POLY 1.5	P=0.503N	P=0.496N	P=0.237N	P=0.504N
POLY 6	P=0.509N	P=0.488N	P=0.239N	P=0.510N
LOGISTIC REGRESSION	P=0.497N	P=0.514N	P=0.258N	P=0.499N
COCH-ARM / FISHERS	P=0.500N	P=0.500N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.230N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.240N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Bone Marrow  
 Hemangiosarcoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.17	0/45.72	0/44.66	1/43.89
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	---	---	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.222	(e)	(e)	P=0.512
POLY 3	P=0.211	(e)	(e)	P=0.499
POLY 1.5	P=0.212	(e)	(e)	P=0.499
POLY 6	P=0.209	(e)	(e)	P=0.498
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.512
COCH-ARM / FISHERS	P=0.214	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.118	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.126	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG
<b>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	6/50 (12%)	9/50 (18%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	6/44.62	9/46.04	7/45.53	5/44.39
POLY-3 PERCENT (g)	13.5%	19.6%	15.4%	11.3%
TERMINAL (d)	3/33 (9%)	7/36 (19%)	3/30 (10%)	4/35 (11%)
FIRST INCIDENCE	633	680	561	578
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.282N	P=0.352	P=0.471	P=0.474N
POLY 3	P=0.289N	P=0.309	P=0.516	P=0.504N
POLY 1.5	P=0.284N	P=0.300	P=0.511	P=0.502N
POLY 6	P=0.295N	P=0.321	P=0.519	P=0.506N
LOGISTIC REGRESSION	P=0.288N	P=0.319	P=0.504	P=0.503N
COCH-ARM / FISHERS	P=0.278N	P=0.288	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.389N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.397N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Harderian Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/44.53	1/45.85	1/45.12	0/43.89
POLY-3 PERCENT (g)	4.5%	2.2%	2.2%	0%
TERMINAL (d)	1/33 (3%)	0/36 (0%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	628	697	592	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.202N	P=0.479N	P=0.508N	P=0.238N
POLY 3	P=0.201N	P=0.490N	P=0.495N	P=0.240N
POLY 1.5	P=0.198N	P=0.494N	P=0.497N	P=0.239N
POLY 6	P=0.204N	P=0.485N	P=0.495N	P=0.242N
LOGISTIC REGRESSION	P=0.190N	P=0.508N	P=0.534N	P=0.237N
COCH-ARM / FISHERS	P=0.194N	P=0.500N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.119N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.129N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Harderian Gland  
 Carcinoma or Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	10/50 (20%)	8/50 (16%)	5/50 (10%)
POLY-3 RATE (b)	8/44.98	10/46.17	8/45.99	5/44.39
POLY-3 PERCENT (g)	17.8%	21.7%	17.4%	11.3%
TERMINAL (d)	4/33 (12%)	7/36 (19%)	3/30 (10%)	4/35 (11%)
FIRST INCIDENCE	628	680	561	578

**STATISTICAL TESTS**

LIFE TABLE	P=0.157N	P=0.469	P=0.572	P=0.263N
POLY 3	P=0.156N	P=0.420	P=0.589N	P=0.283N
POLY 1.5	P=0.151N	P=0.411	P=0.595N	P=0.280N
POLY 6	P=0.164N	P=0.432	P=0.586N	P=0.289N
LOGISTIC REGRESSION	P=0.148N	P=0.424	P=0.603	P=0.278N
COCH-ARM / FISHERS	P=0.145N	P=0.398	P=0.607N	P=0.277N
ORDER RESTRICTED	P=0.229N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.239N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Islets, Pancreatic  
 Adenoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/44.17	0/45.72	0/44.66	2/44.56
POLY-3 PERCENT (g)	2.3%	0%	0%	4.5%
TERMINAL (d)	1/33 (3%)	0/36 (0%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	---	---	502

STATISTICAL TESTS

LIFE TABLE	P=0.195	P=0.483N	P=0.519N	P=0.511
POLY 3	P=0.185	P=0.493N	P=0.498N	P=0.503
POLY 1.5	P=0.187	P=0.496N	P=0.498N	P=0.502
POLY 6	P=0.183	P=0.489N	P=0.498N	P=0.505
LOGISTIC REGRESSION	P=0.196	(e)	(e)	P=0.501
COCH-ARM / FISHERS	P=0.189	P=0.500N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.131	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.140	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Kidney: Renal Tubule  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.17	0/45.72	0/44.66	0/43.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (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. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hemangiosarcoma

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/44.17	0/45.72	1/44.66	1/43.89
POLY-3 PERCENT (g)	2.3%	0%	2.2%	2.3%
TERMINAL (d)	1/33 (3%)	0/36 (0%)	1/30 (3%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.551	P=0.483N	P=0.741	P=0.749N
POLY 3	P=0.534	P=0.493N	P=0.758N	P=0.759
POLY 1.5	P=0.539	P=0.496N	P=0.759N	P=0.760
POLY 6	P=0.529	P=0.489N	P=0.759N	P=0.759
LOGISTIC REGRESSION	P=0.551	(e)	P=0.741	P=0.749N
COCH-ARM / FISHERS	P=0.545	P=0.500N	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.533	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.536	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.17	0/45.72	0/44.66	0/43.89
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/36 (0%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	729 (T)	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.470N	P=0.483N	P=0.519N	P=0.488N
POLY 3	P=0.479N	P=0.493N	P=0.498N	P=0.501N
POLY 1.5	P=0.477N	P=0.496N	P=0.498N	P=0.501N
POLY 6	P=0.482N	P=0.489N	P=0.498N	P=0.502N
LOGISTIC REGRESSION	P=0.470N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.474N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.120N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.129N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	31/50 (62%)	25/50 (50%)	25/50 (50%)	21/50 (42%)
POLY-3 RATE (b)	31/45.58	25/46.84	25/47.24	21/44.99
POLY-3 PERCENT (g)	68%	53.4%	52.9%	46.7%
TERMINAL (d)	24/33 (73%)	20/36 (56%)	16/30 (53%)	17/35 (49%)
FIRST INCIDENCE	624	640	506	578

STATISTICAL TESTS

LIFE TABLE	P=0.064N	P=0.083N	P=0.285N	P=0.027N*
POLY 3	P=0.061N	P=0.103N	P=0.094N	P=0.027N*
POLY 1.5	P=0.057N	P=0.124N	P=0.115N	P=0.029N*
POLY 6	P=0.068N	P=0.082N	P=0.077N	P=0.026N*
LOGISTIC REGRESSION	P=0.067N	P=0.083N	P=0.135N	P=0.031N*
COCH-ARM / FISHERS	P=0.056N	P=0.157N	P=0.157N	P=0.036N*
ORDER RESTRICTED	P=0.026N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031N*	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma

**TUMOR RATES**

OVERALL (a)	8/50 (16%)	5/50 (10%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	8/45.36	5/45.78	6/45.04	3/44.17
POLY-3 PERCENT (g)	17.6%	10.9%	13.3%	6.8%
TERMINAL (d)	5/33 (15%)	4/36 (11%)	3/30 (10%)	2/35 (6%)
FIRST INCIDENCE	563	715	663	654

**STATISTICAL TESTS**

LIFE TABLE	P=0.124N	P=0.235N	P=0.427N	P=0.098N
POLY 3	P=0.128N	P=0.269N	P=0.392N	P=0.106N
POLY 1.5	P=0.123N	P=0.272N	P=0.388N	P=0.103N
POLY 6	P=0.134N	P=0.266N	P=0.399N	P=0.110N
LOGISTIC REGRESSION	P=0.121N	P=0.270N	P=0.385N	P=0.100N
COCH-ARM / FISHERS	P=0.117N	P=0.277N	P=0.387N	P=0.100N
ORDER RESTRICTED	P=0.088N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.099N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	9/50 (18%)	5/50 (10%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	9/45.36	5/45.78	6/45.04	3/44.17
POLY-3 PERCENT (g)	19.8%	10.9%	13.3%	6.8%
TERMINAL (d)	6/33 (18%)	4/36 (11%)	3/30 (10%)	2/35 (6%)
FIRST INCIDENCE	563	715	663	654

**STATISTICAL TESTS**

LIFE TABLE	P=0.091N	P=0.160N	P=0.331N	P=0.060N
POLY 3	P=0.093N	P=0.186N	P=0.291N	P=0.064N
POLY 1.5	P=0.090N	P=0.189N	P=0.288N	P=0.062N
POLY 6	P=0.097N	P=0.184N	P=0.298N	P=0.067N
LOGISTIC REGRESSION	P=0.089N	P=0.186N	P=0.284N	P=0.062N
COCH-ARM / FISHERS	P=0.085N	P=0.194N	P=0.288N	P=0.061N
ORDER RESTRICTED	P=0.046N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.054N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Liver  
 Hepatocellular Carcinoma or Hepatocellular Adenoma**

**TUMOR RATES**

OVERALL (a)	32/50 (64%)	28/50 (56%)	28/50 (56%)	23/50 (46%)
POLY-3 RATE (b)	32/46.12	28/46.89	28/47.57	23/44.99
POLY-3 PERCENT (g)	69.4%	59.7%	58.9%	51.1%
TERMINAL (d)	24/33 (73%)	22/36 (61%)	17/30 (57%)	19/35 (54%)
FIRST INCIDENCE	563	640	506	578

**STATISTICAL TESTS**

LIFE TABLE	P=0.072N	P=0.158N	P=0.421N	P=0.042N*
POLY 3	P=0.070N	P=0.218N	P=0.193N	P=0.051N
POLY 1.5	P=0.063N	P=0.240N	P=0.219N	P=0.050N*
POLY 6	P=0.083N	P=0.194N	P=0.169N	P=0.055N
LOGISTIC REGRESSION	P=0.069N	P=0.175N	P=0.245N	P=0.049N*
COCH-ARM / FISHERS	P=0.058N	P=0.270N	P=0.270N	P=0.054N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.059N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	32/50 (64%)	28/50 (56%)	28/50 (56%)	23/50 (46%)
POLY-3 RATE (b)	32/46.12	28/46.89	28/47.57	23/44.99
POLY-3 PERCENT (g)	69.4%	59.7%	58.9%	51.1%
TERMINAL (d)	24/33 (73%)	22/36 (61%)	17/30 (57%)	19/35 (54%)
FIRST INCIDENCE	563	640	506	578

**STATISTICAL TESTS**

LIFE TABLE	P=0.072N	P=0.158N	P=0.421N	P=0.042N*
POLY 3	P=0.070N	P=0.218N	P=0.193N	P=0.051N
POLY 1.5	P=0.063N	P=0.240N	P=0.219N	P=0.050N*
POLY 6	P=0.083N	P=0.194N	P=0.169N	P=0.055N
LOGISTIC REGRESSION	P=0.069N	P=0.175N	P=0.245N	P=0.049N*
COCH-ARM / FISHERS	P=0.058N	P=0.270N	P=0.270N	P=0.054N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.059N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Liver  
 Hepatocholangiocarcinoma

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.17	0/45.72	0/44.66	0/43.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (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. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Lung  
 Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/44.17	0/45.72	2/44.91	2/44
POLY-3 PERCENT (g)	4.5%	0%	4.5%	4.6%
TERMINAL (d)	2/33 (6%)	0/36 (0%)	1/30 (3%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	---	663	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.427	P=0.219N	P=0.672	P=0.678N
POLY 3	P=0.410	P=0.229N	P=0.688N	P=0.693
POLY 1.5	P=0.416	P=0.233N	P=0.690N	P=0.693
POLY 6	P=0.404	P=0.225N	P=0.687N	P=0.693
LOGISTIC REGRESSION	P=0.412	(e)	P=0.692N	P=0.694
COCH-ARM / FISHERS	P=0.423	P=0.247N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.437	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.443	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Lung  
 Alveolar/Bronchiolar Carcinoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	3/44.52	2/45.85	4/44.86	1/43.89
POLY-3 PERCENT (g)	6.7%	4.4%	8.9%	2.3%
TERMINAL (d)	2/33 (6%)	1/36 (3%)	3/30 (10%)	1/35 (3%)
FIRST INCIDENCE	633	697	675	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.279N	P=0.466N	P=0.465	P=0.295N
POLY 3	P=0.290N	P=0.487N	P=0.504	P=0.310N
POLY 1.5	P=0.284N	P=0.492N	P=0.504	P=0.308N
POLY 6	P=0.297N	P=0.480N	P=0.503	P=0.313N
LOGISTIC REGRESSION	P=0.284N	P=0.494N	P=0.505	P=0.306N
COCH-ARM / FISHERS	P=0.275N	P=0.500N	P=0.500	P=0.309N
ORDER RESTRICTED	P=0.290N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.300N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

**TUMOR RATES**

OVERALL (a)	5/50 (10%)	2/50 (4%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	5/44.52	2/45.85	6/45.11	3/44
POLY-3 PERCENT (g)	11.2%	4.4%	13.3%	6.8%
TERMINAL (d)	4/33 (12%)	1/36 (3%)	4/30 (13%)	2/35 (6%)
FIRST INCIDENCE	633	697	663	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.446N	P=0.190N	P=0.457	P=0.337N
POLY 3	P=0.468N	P=0.204N	P=0.509	P=0.362N
POLY 1.5	P=0.458N	P=0.210N	P=0.507	P=0.360N
POLY 6	P=0.478N	P=0.197N	P=0.511	P=0.365N
LOGISTIC REGRESSION	P=0.462N	P=0.203N	P=0.507	P=0.360N
COCH-ARM / FISHERS	P=0.447N	P=0.218N	P=0.500	P=0.357N
ORDER RESTRICTED	P=0.374N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.383N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Ovary  
 Cystadenoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	3/44.56	2/45.72	0/44.66	3/43.89
POLY-3 PERCENT (g)	6.7%	4.4%	0%	6.8%
TERMINAL (d)	1/33 (3%)	2/36 (6%)	0/30 (0%)	3/35 (9%)
FIRST INCIDENCE	675	729 (T)	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.501	P=0.468N	P=0.133N	P=0.651N
POLY 3	P=0.490	P=0.488N	P=0.118N	P=0.656
POLY 1.5	P=0.494	P=0.493N	P=0.118N	P=0.659
POLY 6	P=0.484	P=0.484N	P=0.119N	P=0.651
LOGISTIC REGRESSION	P=0.486	P=0.488N	P=0.120N	P=0.660
COCH-ARM / FISHERS	P=0.500	P=0.500N	P=0.121N	P=0.661N
ORDER RESTRICTED	P=0.357N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.368N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Pituitary Gland: Pars Distalis or Unspecified Site  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	5/50 (10%)	7/50 (14%)	8/50 (16%)	5/50 (10%)
POLY-3 RATE (b)	5/44.17	7/46.39	8/45.13	5/43.89
POLY-3 PERCENT (g)	11.3%	15.1%	17.7%	11.4%
TERMINAL (d)	5/33 (15%)	5/36 (14%)	7/30 (23%)	5/35 (14%)
FIRST INCIDENCE	729 (T)	613	589	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.428N	P=0.442	P=0.219	P=0.595N
POLY 3	P=0.466N	P=0.414	P=0.289	P=0.627
POLY 1.5	P=0.456N	P=0.399	P=0.285	P=0.628
POLY 6	P=0.478N	P=0.435	P=0.291	P=0.626
LOGISTIC REGRESSION	P=0.468N	P=0.407	P=0.280	P=0.595N
COCH-ARM / FISHERS	P=0.444N	P=0.380	P=0.277	P=0.630N
ORDER RESTRICTED	P=0.509	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.514	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Pituitary Gland: Pars Intermedia  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.17	2/46.42	0/44.66	0/43.89
POLY-3 PERCENT (g)	2.3%	4.3%	0%	0%
TERMINAL (d)	1/33 (3%)	1/36 (3%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	729 (T)	487	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.209N	P=0.520	P=0.519N	P=0.488N
POLY 3	P=0.209N	P=0.517	P=0.498N	P=0.501N
POLY 1.5	P=0.209N	P=0.510	P=0.498N	P=0.501N
POLY 6	P=0.209N	P=0.526	P=0.498N	P=0.502N
LOGISTIC REGRESSION	P=0.206N	P=0.477	(e)	(e)
COCH-ARM / FISHERS	P=0.209N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.179N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.187N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/44.28	2/46.59	2/45.05	2/44.25
POLY-3 PERCENT (g)	2.3%	4.3%	4.4%	4.5%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	701	372	634	628

**STATISTICAL TESTS**

LIFE TABLE	P=0.484	P=0.513	P=0.508	P=0.501
POLY 3	P=0.482	P=0.518	P=0.506	P=0.500
POLY 1.5	P=0.485	P=0.511	P=0.504	P=0.500
POLY 6	P=0.479	P=0.525	P=0.507	P=0.500
LOGISTIC REGRESSION	P=0.505	P=0.465	P=0.494	P=0.501
COCH-ARM / FISHERS	P=0.490	P=0.500	P=0.500	P=0.500
ORDER RESTRICTED	P=0.467	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.472	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Skin  
 Fibrosarcoma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.17	1/46.59	0/44.66	2/44.25
POLY-3 PERCENT (g)	0%	2.2%	0%	4.5%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	---	372	---	628

STATISTICAL TESTS

LIFE TABLE	P=0.150	P=0.500	(e)	P=0.241
POLY 3	P=0.150	P=0.511	(e)	P=0.237
POLY 1.5	P=0.150	P=0.507	(e)	P=0.237
POLY 6	P=0.150	P=0.515	(e)	P=0.238
LOGISTIC REGRESSION	P=0.147	(e)	(e)	P=0.238
COCH-ARM / FISHERS	P=0.151	P=0.500	(e)	P=0.247
ORDER RESTRICTED	P=0.074	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.080	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/44.28	2/46.59	2/45.05	2/44.25
POLY-3 PERCENT (g)	2.3%	4.3%	4.4%	4.5%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	701	372	634	628

**STATISTICAL TESTS**

LIFE TABLE	P=0.484	P=0.513	P=0.508	P=0.501
POLY 3	P=0.482	P=0.518	P=0.506	P=0.500
POLY 1.5	P=0.485	P=0.511	P=0.504	P=0.500
POLY 6	P=0.479	P=0.525	P=0.507	P=0.500
LOGISTIC REGRESSION	P=0.505	P=0.465	P=0.494	P=0.501
COCH-ARM / FISHERS	P=0.490	P=0.500	P=0.500	P=0.500
ORDER RESTRICTED	P=0.467	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.472	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Hemangiosarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.17	1/45.72	0/44.66	0/43.89
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.571N	P=0.517	(e)	(e)
POLY 3	P=0.572N	P=0.507	(e)	(e)
POLY 1.5	P=0.574N	P=0.504	(e)	(e)
POLY 6	P=0.570N	P=0.511	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.517	(e)	(e)
COCH-ARM / FISHERS	P=0.576N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.389N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.397N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Skin  
 Sarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.28	1/45.72	2/45.05	0/43.89
POLY-3 PERCENT (g)	2.3%	2.2%	4.4%	0%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	701	729 (T)	634	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.338N	P=0.748N	P=0.508	P=0.500N
POLY 3	P=0.341N	P=0.754N	P=0.506	P=0.502N
POLY 1.5	P=0.338N	P=0.756N	P=0.504	P=0.501N
POLY 6	P=0.345N	P=0.750N	P=0.507	P=0.503N
LOGISTIC REGRESSION	P=0.332N	P=0.753N	P=0.494	P=0.501N
COCH-ARM / FISHERS	P=0.333N	P=0.753N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.279N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.289N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

Spleen  
 Hemangiosarcoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.17	0/45.72	1/44.66	0/43.89
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	1/30 (3%)	0/35 (0%)
FIRST INCIDENCE	---	---	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.778N	(e)	P=0.481	(e)
POLY 3	P=0.789N	(e)	P=0.502	(e)
POLY 1.5	P=0.788N	(e)	P=0.502	(e)
POLY 6	P=0.791N	(e)	P=0.502	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.481	(e)
COCH-ARM / FISHERS	P=0.786N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.384	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.392	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Thyroid Gland: Follicular Cell  
 Carcinoma or Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.17	2/45.93	2/44.66	1/43.89
POLY-3 PERCENT (g)	0%	4.4%	4.5%	2.3%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	2/30 (7%)	1/35 (3%)
FIRST INCIDENCE	---	674	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.620	P=0.257	P=0.217	P=0.512
POLY 3	P=0.612	P=0.246	P=0.239	P=0.499
POLY 1.5	P=0.614	P=0.242	P=0.239	P=0.499
POLY 6	P=0.609	P=0.251	P=0.239	P=0.498
LOGISTIC REGRESSION	P=0.608	P=0.239	P=0.217	P=0.512
COCH-ARM / FISHERS	P=0.618	P=0.247	P=0.247	P=0.500
ORDER RESTRICTED	P=0.233	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.241	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Uterus  
 Hemangioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.17	0/45.72	0/44.66	2/44.1
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	---	---	---	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.042*	(e)	(e)	P=0.243
POLY 3	P=0.040*	(e)	(e)	P=0.237
POLY 1.5	P=0.040*	(e)	(e)	P=0.237
POLY 6	P=0.039*	(e)	(e)	P=0.237
LOGISTIC REGRESSION	P=0.041*	(e)	(e)	P=0.237
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.030*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/44.17	1/45.72	3/45.67	2/44.34
POLY-3 PERCENT (g)	2.3%	2.2%	6.6%	4.5%
TERMINAL (d)	1/33 (3%)	1/36 (3%)	1/30 (3%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	561	596
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.404	P=0.742N	P=0.293	P=0.514
POLY 3	P=0.394	P=0.753N	P=0.317	P=0.501
POLY 1.5	P=0.396	P=0.756N	P=0.313	P=0.501
POLY 6	P=0.391	P=0.749N	P=0.321	P=0.503
LOGISTIC REGRESSION	P=0.411	P=0.742N	P=0.271	P=0.501
COCH-ARM / FISHERS	P=0.399	P=0.753N	P=0.309	P=0.500
ORDER RESTRICTED	P=0.337	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.346	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**Uterus  
 Sarcoma Stromal or Polyp Stromal**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/44.17	1/45.72	4/45.67	2/44.34
POLY-3 PERCENT (g)	2.3%	2.2%	8.8%	4.5%
TERMINAL (d)	1/33 (3%)	1/36 (3%)	2/30 (7%)	1/35 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	561	596

**STATISTICAL TESTS**

LIFE TABLE	P=0.420	P=0.742N	P=0.168	P=0.514
POLY 3	P=0.407	P=0.753N	P=0.189	P=0.501
POLY 1.5	P=0.411	P=0.756N	P=0.185	P=0.501
POLY 6	P=0.405	P=0.749N	P=0.192	P=0.503
LOGISTIC REGRESSION	P=0.425	P=0.742N	P=0.163	P=0.501
COCH-ARM / FISHERS	P=0.414	P=0.753N	P=0.181	P=0.500
ORDER RESTRICTED	P=0.249	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.257	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

All Organs  
 Hemangioma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.17	0/45.72	0/44.66	2/44.1
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/33 (0%)	0/36 (0%)	0/30 (0%)	1/35 (3%)
FIRST INCIDENCE	---	---	---	674

STATISTICAL TESTS

LIFE TABLE	P=0.042*	(e)	(e)	P=0.243
POLY 3	P=0.040*	(e)	(e)	P=0.237
POLY 1.5	P=0.040*	(e)	(e)	P=0.237
POLY 6	P=0.039*	(e)	(e)	P=0.237
LOGISTIC REGRESSION	P=0.041*	(e)	(e)	P=0.237
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.030*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Hemangiosarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	1/44.17	2/45.72	5/45.13	3/44.68
POLY-3 PERCENT (g)	2.3%	4.4%	11.1%	6.7%
TERMINAL (d)	1/33 (3%)	2/36 (6%)	4/30 (13%)	2/35 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	589	436

**STATISTICAL TESTS**

LIFE TABLE	P=0.332	P=0.530	P=0.088	P=0.324
POLY 3	P=0.317	P=0.512	P=0.106	P=0.309
POLY 1.5	P=0.319	P=0.507	P=0.105	P=0.308
POLY 6	P=0.314	P=0.519	P=0.107	P=0.310
LOGISTIC REGRESSION	P=0.323	P=0.530	P=0.105	P=0.305
COCH-ARM / FISHERS	P=0.319	P=0.500	P=0.102	P=0.309
ORDER RESTRICTED	P=0.149	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.159	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
 Time Report Requested: 13:25:49  
 First Dose M/F: 06/25/02 / 06/24/02  
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Hemangiosarcoma or Hemangioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	1/44.17	2/45.72	5/45.13	5/44.89
POLY-3 PERCENT (g)	2.3%	4.4%	11.1%	11.1%
TERMINAL (d)	1/33 (3%)	2/36 (6%)	4/30 (13%)	3/35 (9%)
FIRST INCIDENCE	729 (T)	729 (T)	589	436

**STATISTICAL TESTS**

LIFE TABLE	P=0.092	P=0.530	P=0.088	P=0.116
POLY 3	P=0.083	P=0.512	P=0.106	P=0.105
POLY 1.5	P=0.084	P=0.507	P=0.105	P=0.104
POLY 6	P=0.082	P=0.519	P=0.107	P=0.106
LOGISTIC REGRESSION	P=0.085	P=0.530	P=0.105	P=0.104
COCH-ARM / FISHERS	P=0.084	P=0.500	P=0.102	P=0.102
ORDER RESTRICTED	P=0.079	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.088	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Histiocytic Sarcoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	1/44.83	1/45.72	5/45.31	1/44.1
POLY-3 PERCENT (g)	2.2%	2.2%	11%	2.3%
TERMINAL (d)	0/33 (0%)	1/36 (3%)	1/30 (3%)	0/35 (0%)
FIRST INCIDENCE	512	729 (T)	644	674

**STATISTICAL TESTS**

LIFE TABLE	P=0.593N	P=0.753N	P=0.107	P=0.753
POLY 3	P=0.602N	P=0.756N	P=0.103	P=0.757
POLY 1.5	P=0.595N	P=0.758N	P=0.103	P=0.758
POLY 6	P=0.608N	P=0.754N	P=0.104	P=0.756
LOGISTIC REGRESSION	P=0.575N	P=0.748	P=0.088	P=0.762
COCH-ARM / FISHERS	P=0.586N	P=0.753N	P=0.102	P=0.753N
ORDER RESTRICTED	P=0.239	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.249	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type**

TUMOR RATES	#	#	#	#
OVERALL (a)	14/50 (28%)	9/50 (18%)	7/50 (14%)	7/50 (14%)
POLY-3 RATE (b)	14/44.28	9/46.87	7/44.66	7/44
POLY-3 PERCENT (g)	31.6%	19.2%	15.7%	15.9%
TERMINAL (d)	12/33 (36%)	5/36 (14%)	7/30 (23%)	6/35 (17%)
FIRST INCIDENCE	715	627	729 (T)	701

**STATISTICAL TESTS**

LIFE TABLE	P=0.101N	P=0.126N	P=0.098N	P=0.053N
POLY 3	P=0.117N	P=0.129N	P=0.061N	P=0.066N
POLY 1.5	P=0.110N	P=0.147N	P=0.064N	P=0.067N
POLY 6	P=0.126N	P=0.107N	P=0.060N	P=0.064N
LOGISTIC REGRESSION	P=0.116N	P=0.141N	P=0.062N	P=0.061N
COCH-ARM / FISHERS	P=0.104N	P=0.171N	P=0.070N	P=0.070N
ORDER RESTRICTED	P=0.047N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.053N	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
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 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Benign Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	39/50 (78%)	33/50 (66%)	35/50 (70%)	31/50 (62%)
POLY-3 RATE (b)	39/46.86	33/47.94	35/48.98	31/46.32
POLY-3 PERCENT (g)	83.2%	68.8%	71.5%	66.9%
TERMINAL (d)	28/33 (85%)	26/36 (72%)	21/30 (70%)	24/35 (69%)
FIRST INCIDENCE	563	487	506	502

**STATISTICAL TESTS**

LIFE TABLE	P=0.146N	P=0.074N	P=0.446N	P=0.066N
POLY 3	P=0.127N	P=0.072N	P=0.122N	P=0.047N*
POLY 1.5	P=0.115N	P=0.092N	P=0.162N	P=0.050N*
POLY 6	P=0.148N	P=0.058N	P=0.090N	P=0.050N*
LOGISTIC REGRESSION	P=0.123N	P=0.083N	P=0.222N	P=0.059N
COCH-ARM / FISHERS	P=0.108N	P=0.133N	P=0.247N	P=0.063N
ORDER RESTRICTED	P=0.051N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.058N	(e)	(e)	(e)



TDMS No. 97003 - 08  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 08/21/2007  
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 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

All Organs  
 Malignant Tumors

TUMOR RATES	#	#	#	#
OVERALL (a)	31/50 (62%)	20/50 (40%)	32/50 (64%)	17/50 (34%)
POLY-3 RATE (b)	31/48.39	20/47.92	32/47.87	17/45.64
POLY-3 PERCENT (g)	64.1%	41.7%	66.8%	37.3%
TERMINAL (d)	19/33 (58%)	13/36 (36%)	19/30 (63%)	12/35 (34%)
FIRST INCIDENCE	380	372	506	436

STATISTICAL TESTS

LIFE TABLE	P=0.037N*	P=0.024N*	P=0.394	P=0.009N**
POLY 3	P=0.028N*	P=0.020N*	P=0.471	P=0.006N**
POLY 1.5	P=0.021N*	P=0.021N*	P=0.483	P=0.005N**
POLY 6	P=0.038N*	P=0.021N*	P=0.457	P=0.009N**
LOGISTIC REGRESSION	P=0.016N*	P=0.027N*	P=0.494	P=0.005N**
COCH-ARM / FISHERS	P=0.017N*	P=0.022N*	P=0.500	P=0.004N**
ORDER RESTRICTED	P=0.004N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.007N**	(e)	(e)	(e)

TDMS No. 97003 - 08  
 Test Type: CHRONIC  
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 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 1,2-Dibromo-2,4-dicyanobutane  
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 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	0.6 MG/KG	2 MG/KG	6 MG/KG

**All Organs  
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	46/50 (92%)	45/50 (90%)	44/50 (88%)	38/50 (76%)
POLY-3 RATE (b)	46/49.33	45/49.82	44/49.18	38/47.47
POLY-3 PERCENT (g)	93.3%	90.3%	89.5%	80.1%
TERMINAL (d)	31/33 (94%)	32/36 (89%)	27/30 (90%)	29/35 (83%)
FIRST INCIDENCE	380	372	506	436

**STATISTICAL TESTS**

LIFE TABLE	P=0.072N	P=0.273N	P=0.524	P=0.063N
POLY 3	P=0.023N*	P=0.433N	P=0.374N	P=0.041N*
POLY 1.5	P=0.014N*	P=0.461N	P=0.373N	P=0.033N*
POLY 6	P=0.044N*	P=0.401N	P=0.373N	P=0.061N
LOGISTIC REGRESSION	P=0.009N**	P=0.505N	P=0.359N	P=0.028N*
COCH-ARM / FISHERS	P=0.009N**	P=0.500N	P=0.370N	P=0.027N*
ORDER RESTRICTED	P=0.024N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.031N*	(e)	(e)	(e)

TDMS No. 97003 - 08  
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
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## LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (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 \*\*\*