

**Experiment Number:** 20114 - 05  
**Test Type:** 90-DAY  
**Route:** DOSED WATER  
**Species/Strain:** MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Sodium dichromate dihydrate (VI)

**CAS Number:** 7789-12-0

**Date Report Requested:** 03/29/2012

**Time Report Requested:** 07:35:10

**First Dose M/F:** 08/20/02 / NA

**Lab:** BAT

F1\_M3

**NTP Study Number:** C20114B  
**Lock Date:** 05/15/2003  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF SODIUM DICHROMATE DIHYDRATE (VI)**

**MALE MICE**

**Organ**

Intestine Small, Duodenum

Intestine Small, Duodenum: Epithelium

Liver

Lymph Node, Mesenteric

Pancreas

**Morphology**

Infiltration Cellular Histiocyte

Hyperplasia

Depletion Glycogen

Inflammation

Necrosis Focal

Infiltration Cellular Histiocyte

Depletion Secretary

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Intestine Small, Duodenum Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	8/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	80%	100%	100%
TERMINAL (d)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Intestine Small, Duodenum: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	4/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	40%	100%	100%
TERMINAL (d)	0/10 (0%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.033*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.033*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.033*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.043*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.007**	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Kidney: Renal Tubule Regeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/10 (20%)	1/10 (10%)	2/10 (20%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	1/10.00	2/10.00	3/10.00
POLY-3 PERCENT (g)	20%	10%	20%	30%
TERMINAL (d)	2/10 (20%)	1/10 (10%)	2/10 (20%)	3/10 (30%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.303	P=0.500N	P=0.702	P=0.500
POLY 1.5	P=0.303	P=0.500N	P=0.702	P=0.500
POLY 6	P=0.303	P=0.500N	P=0.702	P=0.500
COCH-ARM / FISHERS	P=0.296	P=0.500N	P=0.709N	P=0.500
MAX-ISO-POLY-3	P=0.339	P=0.275N	P=1.000	P=0.311

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Kidney: Renal Tubule Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)
POLY-3 RATE (b)	10/10.00	10/10.00	10/10.00	9/10.00
POLY-3 PERCENT (g)	100%	100%	100%	90%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	10/10 (100%)	9/10 (90%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.199N	(e)	(e)	P=0.500N
POLY 1.5	P=0.199N	(e)	(e)	P=0.500N
POLY 6	P=0.199N	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.196N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	P=0.124N	(e)	(e)	P=0.159N

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 Sodium dichromate dihydrate (VI)  
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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Liver</b>				
<b>Depletion Glycogen</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	2/10 (20%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	1/10.00	2/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	10%	20%	90%	100%
TERMINAL (d)	1/10 (10%)	2/10 (20%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.275	P<0.001**	P<0.001**

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Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Liver</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.306N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.306N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.306N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.304N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.159N	P=0.159N	P=0.159N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Liver Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/10 (100%)	7/10 (70%)	6/10 (60%)	5/10 (50%)
POLY-3 RATE (b)	10/10.00	7/10.00	6/10.00	5/10.00
POLY-3 PERCENT (g)	100%	70%	60%	50%
TERMINAL (d)	10/10 (100%)	7/10 (70%)	6/10 (60%)	5/10 (50%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.015N*	P=0.095N	P=0.033N*	P=0.008N**
POLY 1.5	P=0.015N*	P=0.095N	P=0.033N*	P=0.008N**
POLY 6	P=0.015N*	P=0.095N	P=0.033N*	P=0.008N**
COCH-ARM / FISHERS	P=0.018N*	P=0.105N	P=0.043N*	P=0.016N*
MAX-ISO-POLY-3	P=0.008N**	P=0.025N*	P=0.007N**	P<0.001N**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Liver</b>				
<b>Necrosis Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/10 (30%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	30%	0%	10%	0%
TERMINAL (d)	3/10 (30%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	92 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.069N	P=0.095N	P=0.292N	P=0.095N
POLY 1.5	P=0.069N	P=0.095N	P=0.292N	P=0.095N
POLY 6	P=0.069N	P=0.095N	P=0.292N	P=0.095N
COCH-ARM / FISHERS	P=0.077N	P=0.105N	P=0.291N	P=0.105N
MAX-ISO-POLY-3	P=0.015N*	P=0.025N*	P=0.136N	P=0.025N*

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Lymph Node, Mesenteric Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	10%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
FIRST INCIDENCE	---	---	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.013*	(e)	P=0.500	P=0.095
POLY 1.5	P=0.013*	(e)	P=0.500	P=0.095
POLY 6	P=0.013*	(e)	P=0.500	P=0.095
COCH-ARM / FISHERS	P=0.016*	(e)	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.015*	(e)	P=0.159	P=0.025*

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TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Pancreas</b>				
<b>Depletion Secretary</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	2/10 (20%)	7/10 (70%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	2/10.00	7/10.00	9/10.00
POLY-3 PERCENT (g)	0%	20%	70%	90%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	7/10 (70%)	9/10 (90%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.227	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.227	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.227	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.237	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.067	P<0.001**	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Stomach, Glandular Erosion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	92 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.694	(e)	P=0.500	(e)
POLY 1.5	P=0.694	(e)	P=0.500	(e)
POLY 6	P=0.694	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.696	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.388	(e)	P=0.159	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
<b>Stomach, Glandular: Glands</b>				
Vacuolization Cytoplasmic				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	2/10 (20%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	2/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	20%	0%	0%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.400N	P=0.227	(e)	(e)
POLY 1.5	P=0.400N	P=0.227	(e)	(e)
POLY 6	P=0.400N	P=0.227	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.237	(e)	(e)
MAX-ISO-POLY-3	P=0.232N	P=0.067	(e)	(e)

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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.
  - (e) Value of statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (n) No statistics are calculated if all dose groups have fewer than two tumors.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*