

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
Intestine Small, Duodenum Infiltration Cellular Histiocyte				
LESION RATES				
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)
STATISTICAL TESTS				
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
Intestine Small, Duodenum: Epithelium Hyperplasia				
LESION RATES				
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)
STATISTICAL TESTS				
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
Kidney: Renal Tubule Regeneration				
LESION RATES				
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)
STATISTICAL TESTS				
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
Kidney: Renal Tubule Vacuolization Cytoplasmic				
LESION RATES				
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)
STATISTICAL TESTS				
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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**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
Liver				
Depletion Glycogen				
LESION RATES				
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)
STATISTICAL TESTS				
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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**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
<hr/>				
Liver				
Hematopoietic Cell Proliferation				
<hr/>				
LESION RATES				
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)	---	---	---
<hr/>				
STATISTICAL TESTS				
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
Liver Inflammation				
LESION RATES				
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)
STATISTICAL TESTS				
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
Liver				
Necrosis Focal				
LESION RATES				
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)	---
STATISTICAL TESTS				
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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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 MG/L	62.5 MG/L	125 MG/L	250 MG/L
Lymph Node, Mesenteric Infiltration Cellular Histiocyte				
LESION RATES				
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)
STATISTICAL TESTS				
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
Pancreas				
Depletion Secretary				
<hr/>				
LESION RATES				
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)
<hr/>				
STATISTICAL TESTS				
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
Stomach, Glandular Erosion				
LESION RATES				
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)	---
STATISTICAL TESTS				
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
Stomach, Glandular: Glands Vacuolization Cytoplasmic				
LESION RATES				
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)	---	---
STATISTICAL TESTS				
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 ***