

TDMS No. 96015-06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

C Number: C96015
Lock Date: 04/30/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

TDMS No. 96015-06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Reqsted: 09/18/2006
Time Report Reqsted: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

**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.**

Kidney

TDMS No. 96015-06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

**SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF WATER DISINFECTION BYPRODUCTS
(DIBROMOACETONITRILE)**

MALE MICE

Organ

Kidney: Renal Tubule

Morphology

Adenoma and Hyperplasia (Original Sections)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Adenoma and Hyperplasia (Original Sections)**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	0/46.04	2/47.5	4/44.95	3/45.95
POLY-3 PERCENT (g)	0%	4.2%	8.9%	6.5%
TERMINAL (d)	0/40 (0%)	2/40 (5%)	4/35 (11%)	3/42 (7%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.126	P=0.238	P=0.047*	P=0.130
POLY 3	P=0.109	P=0.244	P=0.057	P=0.118
POLY 1.5	P=0.109	P=0.243	P=0.059	P=0.118
POLY 6	P=0.110	P=0.245	P=0.055	P=0.119
LOGISTIC REGRESSION (e)		P=0.238	P=0.047*	P=0.130
COCH-ARM / FISHERS	P=0.113	P=0.247	P=0.059	P=0.121
ORDER RESTRICTED	P=0.063	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.068	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
 CAS Number: 3252-43-5
 Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
 Time Report Requested: 16:47:05
 First Dose M/F: 08/22/01 / 08/22/01
 Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

Kidney: Renal Tubule
Adenoma and Hyperplasia (Original and Step Sections)

TUMOR RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/46.04	6/47.5	4/44.95	4/46.51
POLY-3 PERCENT (g)	6.5%	12.6%	8.9%	8.6%
TERMINAL (d)	3/40 (8%)	6/40 (15%)	4/35 (11%)	3/42 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	554

STATISTICAL TESTS

LIFE TABLE	P=0.562N	P=0.241	P=0.427	P=0.523
POLY 3	P=0.553	P=0.258	P=0.487	P=0.505
POLY 1.5	P=0.550	P=0.256	P=0.495	P=0.502
POLY 6	P=0.559	P=0.260	P=0.476	P=0.512
LOGISTIC REGRESSION	P=0.542	P=0.241	P=0.427	P=0.499
COCH-ARM / FISHERS	P=0.551	P=0.243	P=0.500	P=0.500
ORDER RESTRICTED	P=0.440	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.446	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
 CAS Number: 3252-43-5
 Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
 Time Report Requested: 16:47:05
 First Dose M/F: 08/22/01 / 08/22/01
 Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

Kidney: Renal Tubule
Adenoma and Hyperplasia (Step Sections)

TUMOR RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/46.04	5/47.5	1/44.95	1/46.51
POLY-3 PERCENT (g)	6.5%	10.5%	2.2%	2.2%
TERMINAL (d)	3/40 (8%)	5/40 (13%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	554

STATISTICAL TESTS

LIFE TABLE	P=0.111N	P=0.356	P=0.354N	P=0.294N
POLY 3	P=0.112N	P=0.374	P=0.314N	P=0.302N
POLY 1.5	P=0.113N	P=0.371	P=0.308N	P=0.304N
POLY 6	P=0.111N	P=0.377	P=0.321N	P=0.298N
LOGISTIC REGRESSION	P=0.116N	P=0.356	P=0.354N	P=0.304N
COCH-ARM / FISHERS	P=0.114N	P=0.357	P=0.309N	P=0.309N
ORDER RESTRICTED	P=0.133N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.139N	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Adenoma(Original Section)**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/46.04	1/47.5	3/44.95	2/45.95
POLY-3 PERCENT (g)	0%	2.1%	6.7%	4.4%
TERMINAL (d)	0/40 (0%)	1/40 (3%)	3/35 (9%)	2/42 (5%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.177	P=0.500	P=0.098	P=0.249
POLY 3	P=0.160	P=0.506	P=0.114	P=0.237
POLY 1.5	P=0.160	P=0.505	P=0.117	P=0.237
POLY 6	P=0.161	P=0.507	P=0.111	P=0.238
LOGISTIC REGRESSION (e)		P=0.500	P=0.098	P=0.249
COCH-ARM / FISHERS	P=0.163	P=0.500	P=0.121	P=0.247
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.109	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
 CAS Number: 3252-43-5
 Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
 Time Report Requested: 16:47:05
 First Dose M/F: 08/22/01 / 08/22/01
 Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Adenoma(Step & Original Sections)**

TUMOR RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/46.04	3/47.5	3/44.95	3/46.51
POLY-3 PERCENT (g)	2.2%	6.3%	6.7%	6.5%
TERMINAL (d)	1/40 (3%)	3/40 (8%)	3/35 (9%)	2/42 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	554

STATISTICAL TESTS

LIFE TABLE	P=0.310	P=0.305	P=0.258	P=0.320
POLY 3	P=0.294	P=0.317	P=0.297	P=0.309
POLY 1.5	P=0.292	P=0.315	P=0.302	P=0.307
POLY 6	P=0.299	P=0.318	P=0.289	P=0.313
LOGISTIC REGRESSION	P=0.287	P=0.305	P=0.258	P=0.306
COCH-ARM / FISHERS	P=0.292	P=0.309	P=0.309	P=0.309
ORDER RESTRICTED	P=0.280	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.287	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Adenoma(Step Section)**

TUMOR RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.04	3/47.5	0/44.95	1/46.51
POLY-3 PERCENT (g)	2.2%	6.3%	0%	2.2%
TERMINAL (d)	1/40 (3%)	3/40 (8%)	0/35 (0%)	0/42 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	554

STATISTICAL TESTS

LIFE TABLE	P=0.402N	P=0.305	P=0.527N	P=0.755N
POLY 3	P=0.408N	P=0.317	P=0.505N	P=0.758N
POLY 1.5	P=0.408N	P=0.315	P=0.502N	P=0.760N
POLY 6	P=0.407N	P=0.318	P=0.509N	P=0.756N
LOGISTIC REGRESSION	P=0.407N	P=0.305	(e)	P=0.761N
COCH-ARM / FISHERS	P=0.409N	P=0.309	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.274N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.281N	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
 CAS Number: 3252-43-5
 Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
 Time Report Requested: 16:47:05
 First Dose M/F: 08/22/01 / 08/22/01
 Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Hyperplasia(Step & Original Sections)**

TUMOR RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/46.04	3/47.5	2/44.95	1/45.95
POLY-3 PERCENT (g)	4.3%	6.3%	4.5%	2.2%
TERMINAL (d)	2/40 (5%)	3/40 (8%)	2/35 (6%)	1/42 (2%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.302N	P=0.500	P=0.646	P=0.483N
POLY 3	P=0.318N	P=0.514	P=0.685	P=0.501N
POLY 1.5	P=0.318N	P=0.512	P=0.691	P=0.501N
POLY 6	P=0.317N	P=0.517	P=0.678	P=0.499N
LOGISTIC REGRESSION	P=0.302N	P=0.500	P=0.646	P=0.483N
COCH-ARM / FISHERS	P=0.313N	P=0.500	P=0.691N	P=0.500N
ORDER RESTRICTED	P=0.364N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.370N	(e)	(e)	(e)

TDMS No. 96015-06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
 CAS Number: 3252-43-5
 Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
 Time Report Requested: 16:47:05
 First Dose M/F: 08/22/01 / 08/22/01
 Lab: SRI

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

DOSE	Males			
	0 MG/L	50 MG/L	100 MG/L	200 MG/L

**Kidney: Renal Tubule
 Hyperplasia(Step Section)**

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/46.04	2/47.5	1/44.95	0/45.95
POLY-3 PERCENT (g)	4.3%	4.2%	2.2%	0%
TERMINAL (d)	2/40 (5%)	2/40 (5%)	1/35 (3%)	0/42 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.124N	P=0.695	P=0.547N	P=0.228N
POLY 3	P=0.128N	P=0.682N	P=0.508N	P=0.238N
POLY 1.5	P=0.128N	P=0.684N	P=0.503N	P=0.238N
POLY 6	P=0.128N	P=0.681N	P=0.516N	P=0.236N
LOGISTIC REGRESSION	P=0.124N	P=0.695	P=0.547N	(e)
COCH-ARM / FISHERS	P=0.125N	P=0.691N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.156N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.162N	(e)	(e)	(e)

TDMS No. 96015-06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)
CAS Number: 3252-43-5
Pathologist: HEATH, J. - JOKINEN, M. - Unknown, U.

Date Report Requested: 09/18/2006
Time Report Requested: 16:47:05
First Dose M/F: 08/22/01 / 08/22/01
Lab: SRI

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 ***