Experiment Number: **A18666**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Dosed-Water**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Chemical mixture - drinking water contaminants**
CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**
Time Report Requested: **04:59:10**

NTP Study Number:	A18666
Study Duration:	14 Days
Study Methodology:	Slide Scoring
Male Study Result:	Negative
Female Study Result:	Equivocal

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Blood; Sex: Male; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	1.30 ± 0.30	
10.0	10	1.10 ± 0.23	0.6585
100.0	10	1.70 ± 0.50	0.2324
200.0	10	2.70 ± 0.54	0.0134
Trend p-Value		0.0020 *	

Trial Summary: Negative

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Blood; Sex: Female; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000			MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	1.20 ± 0.44		10	0.40 ± 0.22	
10.0	10	1.50 ± 0.37	0.2817	10	0.10 ± 0.10	0.9102
100.0	10	1.10 ± 0.35	0.5826	10	0.10 ± 0.10	0.9102
200.0	10	0.90 ± 0.38	0.7438	10	0.00 ± 0.00	0.9773
Trend p-Value		0.8580			0.9640	

Trial Summary: Equivocal

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	1.30 ± 0.37	
Vehicle Control[1]	10	1.30 ± 0.37	
10.0	10	2.30 ± 0.56	0.0476
10.0	10	2.30 ± 0.56	0.0476
100.0	10	1.60 ± 0.48	0.2886
100.0	10	1.60 ± 0.48	0.2886
200.0	10	2.30 ± 0.60	0.0476
200.0	10	2.30 ± 0.60	0.0476
Trend p-Value		0.1880	

Trial Summary: Negative

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

	MN PCE/1000			MN NCE/1000		
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	2.70 ± 0.52		10	1.80 ± 0.36	
Vehicle Control[1]	10	2.70 ± 0.52		10	1.80 ± 0.36	
10.0	10	2.40 ± 0.52	0.6630	10	1.90 ± 0.48	0.4346
10.0	10	2.40 ± 0.52	0.6630	10	1.90 ± 0.48	0.4346
100.0	10	0.90 ± 0.38	0.9987	10	3.00 ± 0.77	0.0414
100.0	10	0.90 ± 0.38	0.9987	10	3.00 ± 0.77	0.0414
200.0	10	1.70 ± 0.30	0.9344	10	1.90 ± 0.43	0.4346
200.0	10	1.70 ± 0.30	0.9344	10	1.90 ± 0.43	0.4346
Trend p-Value		0.9780			0.3320	

Trial Summary: Negative

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Bone marrow; Sex: Female; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000			MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	0.70 ± 0.15		10	1.90 ± 0.46	
Vehicle Control[1]	10	0.70 ± 0.15		10	1.90 ± 0.46	
10.0	10	1.50 ± 0.43	0.0440	10	1.70 ± 0.15	0.6307
10.0	10	1.50 ± 0.43	0.0440	10	1.70 ± 0.15	0.6307
100.0	10	1.90 ± 0.31	0.0093	10	1.60 ± 0.43	0.6941
100.0	10	1.90 ± 0.31	0.0093	10	1.60 ± 0.43	0.6941
200.0	10	1.20 ± 0.36	0.1256	10	2.40 ± 0.54	0.2226
200.0	10	1.20 ± 0.36	0.1256	10	2.40 ± 0.54	0.2226
Trend p-Value		0.2800			0.1670	

Trial Summary: Equivocal

Experiment Number: **A18666**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Chemical mixture - drinking water contaminants**

CAS Number: **CHEMMIXH2O**

Date Report Requested: **09/20/2018**

Time Report Requested: **04:59:10**

Tissue: Bone marrow; Sex: Female; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000			MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	1.10 ± 0.43		10	0.50 ± 0.22	
Vehicle Control[1]	10	1.10 ± 0.43		10	0.50 ± 0.22	
10.0	10	1.40 ± 0.50	0.3091	10	0.10 ± 0.10	0.9488
10.0	10	1.40 ± 0.50	0.3091	10	0.10 ± 0.10	0.9488
100.0	10	1.60 ± 0.45	0.2120	10	0.20 ± 0.13	0.8716
100.0	10	1.60 ± 0.45	0.2120	10	0.20 ± 0.13	0.8716
200.0	10	1.30 ± 0.37	0.3673	10	0.20 ± 0.20	0.8716
200.0	10	1.30 ± 0.37	0.3673	10	0.20 ± 0.20	0.8716
Trend p-Value		0.4140			0.7410	

Trial Summary: Equivocal

LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte
CAS Number = Chemical Abstracts Service registry number
N = Number of subjects
Values given as Mean or Mean ± Standard Error Mean
Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean
Pairwise comparison to the concurrent control, dosed groups significant at p = 0.025/number of treatment groups; positive control value is significant at p = 0.05
Cochran-Armitage trend test, significant at p = 0.025
* Statistically significant pairwise or trend test
1: Vehicle Control: Water

** END OF REPORT **