Experiment Number: **447196**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Gavage**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**
CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**
Time Report Requested: **16:59:15**

NTP Study Number:	447196
Study Duration:	96 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Negative

Experiment Number: **447196**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**

CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**

Time Report Requested: **16:59:15**

Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

	MN PCE/1000			MN NCE/1000			% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]				5	2.20 ± 0.37		
500.0				5	1.70 ± 0.25	0.7886	
1000.0				5	1.00 ± 0.16	0.9831	
1500.0				4	1.63 ± 1.14	0.8079	
Trend p-Value					0.9210		
Positive Control[2]	5	0.00 ± 0.00	0.5000	5	8.00 ± 0.96	< 0.001 *	1.52 ± 0.15

Trial Summary: Negative

Experiment Number: **447196**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**

CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**

Time Report Requested: **16:59:15**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

		MN PCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	1.50 ± 0.16		43.88 ± 3.81
1000.0	5	2.90 ± 0.43	0.0173	48.26 ± 2.83
1500.0	5	2.70 ± 0.64	0.0319	44.06 ± 4.28
Trend p-Value		0.0240 *		

Trial Summary: Negative

Experiment Number: **447196**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**

CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**

Time Report Requested: **16:59:15**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	2.20 ± 0.68		38.22 ± 3.30
375.0	5	2.50 ± 0.71	0.3307	31.84 ± 3.48
750.0	5	3.00 ± 0.35	0.1333	37.14 ± 1.91
1500.0	5	1.90 ± 0.29	0.6805	41.48 ± 1.26
Trend p-Value		0.6860		
Positive Control[2]	5	9.90 ± 0.51	< 0.001 *	24.82 ± 1.88

Trial Summary: Negative

Experiment Number: **447196**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**

CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**

Time Report Requested: **16:59:15**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	2.40 ± 0.43		47.70 ± 2.28
375.0	5	2.80 ± 0.58	0.2893	50.00 ± 2.49
750.0	5	2.10 ± 0.19	0.6728	54.74 ± 2.50
1500.0	1	2.00 ± 0.00	< 0.001 *	53.80 ± 0.00
Trend p-Value		0.6670		
Positive Control[2]	5	9.50 ± 0.55	< 0.001 *	45.90 ± 1.74

Trial Summary: Negative

Experiment Number: **447196**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1,4-Dichlorobenzene (p-dichlorobenzene)**

CAS Number: **106-46-7**

Date Report Requested: **09/19/2018**

Time Report Requested: **16:59:15**

Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

		MN PCE/1000			MN NCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	1.60 ± 0.33		1	0.00 ± 0.00		48.10 ± 0.00
500.0	5	1.50 ± 0.32	0.5713	1	0.00 ± 0.00	< 0.001 *	43.90 ± 0.00
1000.0	5	1.60 ± 0.43	0.5000				54.26 ± 1.10
1500.0	4	2.00 ± 0.20	0.2634	1	0.00 ± 0.00	< 0.001 *	45.80 ± 0.00
Trend p-Value		0.2640					
Positive Control[2]	5	5.50 ± 0.59	< 0.001 *	5	0.00 ± 0.00	0.5000	43.78 ± 1.66

Trial Summary: Negative

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: Corn Oil
2: 12.5 mg/kg Dimethylbenzanthracene

** END OF REPORT **