Experiment Number: **A49564**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **4-Methylimidazole**
CAS Number: **822-36-6**

Date Report Requested: **09/20/2018**
Time Report Requested: **16:54:11**

NTP Study Number:	A49564
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Negative

Experiment Number: **A49564**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **4-Methylimidazole**
CAS Number: **822-36-6**

Date Report Requested: **09/20/2018**
Time Report Requested: **16:54:11**

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	1.70 ± 0.25		49.90 ± 2.46
200.0	5	1.50 ± 0.16	0.6383	53.00 ± 2.52
Trend p-Value		0.6380		
Positive Control[2]	5	16.70 ± 1.12	< 0.001 *	52.00 ± 1.50

Trial Summary: Negative

Experiment Number: **A49564**
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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	14.20 ± 1.10		45.90 ± 6.41
50.0	5	1.90 ± 0.56	1.0000	40.80 ± 2.15
100.0	5	1.30 ± 0.25	1.0000	45.50 ± 2.81
Trend p-Value		1.0000		
Positive Control[3]	5	14.00 ± 2.27	0.5477	51.30 ± 1.45

Trial Summary: Negative

Experiment Number: **A49564**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Intraperitoneal Injection**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

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

Time Report Requested: **16:54:11**

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 ± 0.44		54.40 ± 0.76
25.0	5	2.50 ± 0.22	0.3307	51.40 ± 2.33
50.0	5	4.30 ± 1.08	0.0045 *	53.80 ± 2.86
100.0	5	4.10 ± 0.58	0.0083 *	48.70 ± 2.32
Trend p-Value		0.0030 *		
Positive Control[3]	5	31.30 ± 1.81	< 0.001 *	44.00 ± 1.47

Trial Summary: Negative

Experiment Number: **A49564**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **4-Methylimidazole**
CAS Number: **822-36-6**

Date Report Requested: **09/20/2018**
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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	2.50 ± 0.22		48.10 ± 3.63
25.0	5	3.00 ± 0.27	0.2498	51.80 ± 5.66
50.0	5	3.10 ± 0.66	0.2110	46.80 ± 3.29
100.0	5	2.40 ± 0.56	0.5569	53.40 ± 2.31
Trend p-Value		0.6140		
Positive Control[4]	5	12.90 ± 1.26	< 0.001 *	49.00 ± 1.88

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: Phosphate Buffered Saline
2: 15.0 mg/kg Cyclophosphamide
3: 25.0 mg/kg Cyclophosphamide
4: 10.0 mg/kg Cyclophosphamide

** END OF REPORT **