Experiment Number: **A36863**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Rat/Fischer 344**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Dimethyl glutarate**
CAS Number: **1119-40-0**

Date Report Requested: **09/20/2018**
Time Report Requested: **11:11:45**

NTP Study Number:	A36863
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Equivocal

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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	0.70 ± 0.25		44.50 ± 2.21
78.13	5	1.00 ± 0.16	0.2333	53.20 ± 5.52
156.25	5	2.40 ± 0.76	0.0011 *	53.70 ± 3.81
312.5	5	1.90 ± 0.19	0.0093	49.10 ± 4.23
625.0	5	1.70 ± 0.37	0.0206	45.20 ± 4.13
1250.0	5	2.00 ± 0.61	0.0061	45.90 ± 6.74
Trend p-Value		0.0500		
Positive Control[2]	5	17.00 ± 1.41	< 0.001 *	43.30 ± 5.13

Trial Summary: Equivocal

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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]	4	0.88 ± 0.24		39.50 ± 4.88
156.25	5	0.90 ± 0.10	0.4777	40.20 ± 2.09
312.5	5	0.50 ± 0.22	0.8336	34.40 ± 3.82
625.0	5	1.10 ± 0.10	0.3175	41.60 ± 2.91
1250.0	3	2.00 ± 0.50	0.0368	37.83 ± 1.76
Trend p-Value		0.0070 *		
Positive Control[2]	5	3.50 ± 1.15	< 0.001 *	37.00 ± 3.48

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: Corn Oil
2: 25.0 mg/kg Cyclophosphamide

** END OF REPORT **