Experiment Number: **A06686**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Hydroquinone**
CAS Number: **123-31-9**

Date Report Requested: **09/20/2018**
Time Report Requested: **00:26:27**

NTP Study Number:	A06686
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Positive

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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			MN NCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	2.30 ± 0.34		5	0.00 ± 0.00		43.16 ± 2.07
6.25	5	1.40 ± 0.33	0.8754	4	0.00 ± 0.00	0.5000	44.43 ± 1.57
12.5	5	1.70 ± 0.25	0.7700	3	0.00 ± 0.00	0.5000	40.73 ± 7.49
25.0	5	1.00 ± 0.35	0.9610	5	0.00 ± 0.00	0.5000	43.52 ± 1.95
50.0	5	1.50 ± 0.32	0.8440	5	0.00 ± 0.00	0.5000	41.50 ± 2.01
100.0	5	12.20 ± 2.76	< 0.001 *	5	0.00 ± 0.00	0.5000	41.26 ± 3.03
Trend p-Value		< 0.001 *					
Positive Control[2]	5	10.70 ± 1.74	< 0.001 *	5	0.00 ± 0.00	0.5000	45.70 ± 2.21

Trial Summary: Positive

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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			MN NCE/1000		% PCE
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**
Vehicle Control[1]	5	0.50 ± 0.00					55.62 ± 1.49
60.0	5	1.20 ± 0.20	0.1086				59.08 ± 1.19
80.0	5	4.30 ± 1.44	< 0.001 *	1	0.00 ± 0.00	< 0.001 *	47.80 ± 0.00
100.0	5	5.40 ± 0.48	< 0.001 *	4	0.00 ± 0.00	0.8563	43.43 ± 2.69
120.0	5	6.20 ± 1.08	< 0.001 *	5	0.00 ± 0.00	0.9067	30.24 ± 3.90
140.0	5	5.70 ± 1.30	< 0.001 *	5	0.00 ± 0.00	0.9194	21.32 ± 2.75
160.0	2	7.75 ± 3.25	< 0.001 *	2	0.00 ± 0.00	0.8135	20.65 ± 4.95
180.0	1	6.00 ± 0.00	< 0.001 *	1	0.00 ± 0.00	< 0.001 *	17.60 ± 0.00
Trend p-Value		< 0.001 *					
Positive Control[2]	5	8.40 ± 0.97	< 0.001 *	5	0.00 ± 0.00	0.8677	50.24 ± 1.74

Trial Summary: Positive

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

** END OF REPORT **