Experiment Number: **A90940**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **3,4-Dihydroxycinnamic acid**
CAS Number: **331-39-5**

Date Report Requested: **09/21/2018**
Time Report Requested: **10:01:33**

NTP Study Number:	A90940
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Positive

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Test Compound: **3,4-Dihydroxycinnamic acid**
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Date Report Requested: **09/21/2018**
Time Report Requested: **10:01:33**

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	1.60 ± 0.37		1	0.00 ± 0.00		39.80 ± 0.00
46.875	4	1.63 ± 0.47	0.4834				58.45 ± 1.99
93.75	5	1.40 ± 0.24	0.6426	2	0.00 ± 0.00	0.5000	41.50 ± 4.80
187.5	5	1.30 ± 0.25	0.7114	1	0.00 ± 0.00	< 0.001 *	47.20 ± 0.00
375.0	5	2.00 ± 0.35	0.2523	2	0.00 ± 0.00	0.5000	47.90 ± 1.20
750.0	4	2.88 ± 0.97	0.0338				56.65 ± 1.38
1500.0	1	3.50 ± 0.00	< 0.001 *	1	0.00 ± 0.00	< 0.001 *	46.90 ± 0.00
Trend p-Value		0.0050 *					
Positive Control[2]	5	16.20 ± 1.33	< 0.001 *	5	0.00 ± 0.00	0.5000	53.14 ± 2.78

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]	4	1.25 ± 0.52		3	0.00 ± 0.00		46.37 ± 1.30
187.5	5	1.00 ± 0.45	0.6916				58.56 ± 2.26
375.0	4	1.00 ± 0.46	0.6814	3	0.00 ± 0.00	0.5000	41.30 ± 1.90
750.0	5	2.30 ± 0.12	0.0509	4	0.00 ± 0.00	0.5000	46.95 ± 1.53
Trend p-Value		0.0110 *					
Positive Control[2]	5	11.70 ± 0.77	< 0.001 *	5	0.00 ± 0.00	0.5000	47.54 ± 1.21

Trial Summary: Positive

Experiment Number: **A90940**
Test Type: **Genetic Toxicology - Micronucleus**
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G04: In Vivo Micronucleus Summary Data
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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	0.90 ± 0.29		2	0.00 ± 0.00		43.80 ± 1.10
250.0	5	0.60 ± 0.29	0.7808	4	0.00 ± 0.00	0.5000	46.23 ± 1.50
500.0	2	1.00 ± 0.00	0.4303				59.65 ± 1.75
750.0	5	3.40 ± 0.62	< 0.001 *				59.02 ± 1.27
1000.0	4	4.00 ± 1.02	< 0.001 *				57.53 ± 3.63
Trend p-Value		< 0.001 *					
Positive Control[2]	4	14.25 ± 1.03	< 0.001 *	4	0.00 ± 0.00	0.5000	49.93 ± 2.14

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: Corn Oil
2: 25.0 mg/kg Cyclophosphamide

** END OF REPORT **