Experiment Number: **G07036C**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Inhalation**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **ortho-Phthalaldehyde**
CAS Number: **643-79-8**

Date Report Requested: **09/23/2018**
Time Report Requested: **13:36:42**

NTP Study Number:	G07036C
Study Duration:	90 Days
Study Methodology:	Flow Cytometry
Male Study Result:	Equivocal
Female Study Result:	Negative

Experiment Number: **G07036C**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Inhalation**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **ortho-Phthalaldehyde**
CAS Number: **643-79-8**

Date Report Requested: **09/23/2018**
Time Report Requested: **13:36:42**

Tissue: Blood; Sex: Male; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

	MN PCE/1000			MN NCE/1000			% PCE	
Dose (ppm)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	5	2.310 ± 0.168		5	1.404 ± 0.021		1.413 ± 0.034	
0.44	5	2.020 ± 0.150	0.6297	5	1.400 ± 0.015	1.0000	1.251 ± 0.012	0.1137
0.88	5	2.160 ± 0.212	0.7169	5	1.347 ± 0.026	1.0000	1.446 ± 0.054	1.0000
1.75	5	2.254 ± 0.098	0.6720	5	1.292 ± 0.036	1.0000	1.378 ± 0.053	1.0000
3.5	5	3.240 ± 0.608	0.0289	5	1.439 ± 0.128	1.0000	1.521 ± 0.212	1.0000
Trend p-Value		0.0055 *			0.9916		0.1515	

Trial Summary: Equivocal

Experiment Number: **G07036C**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Inhalation**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **ortho-Phthalaldehyde**
CAS Number: **643-79-8**

Date Report Requested: **09/23/2018**
Time Report Requested: **13:36:42**

Tissue: Blood; Sex: Female; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

	MN PCE/1000			MN NCE/1000			% PCE	
Dose (ppm)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	5	2.390 ± 0.192		5	0.981 ± 0.015		1.400 ± 0.160	
0.44	5	2.060 ± 0.165	0.9680	5	0.986 ± 0.022	1.0000	1.323 ± 0.042	1.0000
0.88	5	1.850 ± 0.079	0.9873	5	1.020 ± 0.023	0.3124	1.398 ± 0.064	1.0000
1.75	5	1.880 ± 0.135	0.9918	5	0.983 ± 0.016	1.0000	1.460 ± 0.038	1.0000
3.5	5	1.790 ± 0.120	0.9942	5	0.982 ± 0.032	1.0000	1.920 ± 0.112	0.0351
Trend p-Value		0.9887			0.4242		< 0.001 *	

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
Pairwise comparison with the control group; values are significant at P <= 0.025 by Williams or Dunn's test
Dose-related trend; significant at P <= 0.025 by linear regression or Jonckheere's test
* Statistically significant pairwise or trend test
1: Vehicle Control: Air

** END OF REPORT **