

Experiment Number: **G07036B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data

Test Compound: **ortho-Phthalaldehyde**

CAS Number: **643-79-8**

Date Report Requested: **09/23/2018**

Time Report Requested: **13:31:54**

NTP Study Number:

G07036B

Study Duration:

90 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

Experiment Number: G07036B
Test Type: Genetic Toxicology - Micronucleus
Route: Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

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

Date Report Requested: 09/23/2018
Time Report Requested: 13:31:54

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

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.720 ± 0.075		5	0.104 ± 0.021		0.818 ± 0.045	
0.44	5	0.710 ± 0.100	0.5195	5	0.092 ± 0.010	0.7466	0.988 ± 0.091	0.1016
0.88	5	0.770 ± 0.058	0.4043	5	0.085 ± 0.015	0.8261	0.990 ± 0.057	0.1197
1.75	5	0.900 ± 0.091	0.0916	5	0.076 ± 0.013	0.8567	0.898 ± 0.035	0.1241
3.5	2			2				
Trend p-Value		0.0427			0.9050		0.5253	

Trial Summary: Negative

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 Test Compound: **ortho-Phthalaldehyde**
 CAS Number: **643-79-8**

Date Report Requested: **09/23/2018**
 Time Report Requested: **13:31:54**

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

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.530 ± 0.046		5	0.129 ± 0.031		0.811 ± 0.092	
0.44	5	0.650 ± 0.119	0.2322	5	0.118 ± 0.029	1.0000	0.784 ± 0.046	1.0000
0.88	5	0.625 ± 0.091	0.2785	5	0.077 ± 0.012	1.0000	0.837 ± 0.083	1.0000
1.75	5	0.750 ± 0.125	0.0915	5	0.068 ± 0.008	1.0000	0.838 ± 0.109	1.0000
3.5	5	0.770 ± 0.110	0.0729	5	0.060 ± 0.012	1.0000	0.729 ± 0.077	0.6629
Trend p-Value		0.0461			0.9891		0.4415	

Trial Summary: Negative

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G04: In Vivo Micronucleus Summary Data

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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 \pm Standard Error Mean

Pairwise comparison with the control group; values are significant at $P \leq 0.025$ by Williams or Dunn's test

Dose-related trend; significant at $P \leq 0.025$ by linear regression or Jonckheere's test

* Statistically significant pairwise or trend test

1: Vehicle Control: Air

**** END OF REPORT ****