

Experiment Number: **G08010B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **2,3-Pentanedione**

CAS Number: **600-14-6**

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

Time Report Requested: **13:51:07**

NTP Study Number:

G08010B

Study Duration:

13 Weeks

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

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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	2.180 ± 0.046		5	1.416 ± 0.030		1.363 ± 0.057	
6.25	5	2.600 ± 0.130	0.0379	5	1.457 ± 0.026	0.5393	1.555 ± 0.032	0.1182
12.5	5	2.750 ± 0.164	0.0457	5	1.455 ± 0.027	0.6220	1.540 ± 0.035	0.2410
25.0	5	2.650 ± 0.127	0.0479	5	1.382 ± 0.044	0.6572	1.495 ± 0.035	0.9191
50.0	5	2.310 ± 0.166	0.0477	5	1.416 ± 0.039	0.6765	1.372 ± 0.065	1.0000
100.0	5	2.460 ± 0.180	0.0488	5	1.344 ± 0.027	0.6895	1.636 ± 0.195	0.2213
Trend p-Value		0.6263			0.9876		0.6767	

Trial Summary: Negative

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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	2.100 ± 0.376		5	1.055 ± 0.009		1.545 ± 0.142	
6.25	5	2.000 ± 0.092	0.7300	5	1.005 ± 0.016	0.9148	1.681 ± 0.086	0.8417
12.5	5	1.780 ± 0.086	0.8133	5	0.967 ± 0.026	0.9580	1.634 ± 0.142	0.9446
25.0	5	1.930 ± 0.291	0.8441	5	1.074 ± 0.043	0.9695	1.440 ± 0.149	0.9712
50.0	5	1.880 ± 0.174	0.8577	5	1.057 ± 0.017	0.9746	1.670 ± 0.097	0.7210
100.0	5	1.760 ± 0.110	0.8687	5	0.875 ± 0.023	0.9784	1.940 ± 0.403	0.3353
Trend p-Value		0.8296			0.9987		0.2414	

Trial Summary: Negative

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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 ****