

Experiment Number: **G08010**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Rat/Wistar Han**

**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: **13:46:16**

**NTP Study Number:**

G08010

**Study Duration:**

13 Weeks

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Negative

**Female Study Result:**

Negative

Experiment Number: G08010  
Test Type: Genetic Toxicology - Micronucleus  
Route: Inhalation  
Species/Strain: Rat/Wistar Han

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: 13:46:16

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 <sup>1</sup>	5	1.337 ± 0.140		5	0.102 ± 0.015		0.764 ± 0.043	
6.25	5	0.920 ± 0.117	0.9299	5	0.087 ± 0.014	0.7629	0.883 ± 0.042	0.4678
12.5	5	1.290 ± 0.040	0.9666	5	0.096 ± 0.014	0.8421	0.860 ± 0.071	0.5614
25.0	5	0.840 ± 0.117	0.9769	5	0.061 ± 0.008	0.8706	0.798 ± 0.047	0.6005
50.0	5	1.060 ± 0.117	0.9808	5	0.085 ± 0.016	0.8829	0.845 ± 0.098	0.6182
100.0	5	1.060 ± 0.144	0.9836	5	0.145 ± 0.022	0.0385	0.961 ± 0.133	0.1836
Trend p-Value		0.7620			0.0114 *		0.2653	

Trial Summary: Negative

Experiment Number: G08010

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Rat/Wistar Han

**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: 13:46:16

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 <sup>1</sup>	5	0.749 ± 0.167		5	0.040 ± 0.012		0.925 ± 0.078	
6.25	5	0.960 ± 0.143	0.3763	5	0.058 ± 0.013	0.4978	0.851 ± 0.053	1.0000
12.5	5	0.840 ± 0.033	0.4456	5	0.046 ± 0.013	0.5792	0.958 ± 0.201	1.0000
25.0	5	0.730 ± 0.089	0.4754	5	0.027 ± 0.006	0.6123	0.952 ± 0.050	1.0000
50.0	5	0.660 ± 0.066	0.4929	5	0.031 ± 0.006	0.6322	1.207 ± 0.131	0.8062
100.0	5	0.800 ± 0.087	0.4954	5	0.080 ± 0.016	0.0155 *	1.366 ± 0.117	0.1703
Trend p-Value		0.7173			0.0357		0.0044 *	

Trial Summary: Negative

Experiment Number: **G08010**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Rat/Wistar Han**

**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: **13:46:16**

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 \*\***