

Experiment Number: **G07010**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Nanoscale material (Fullerene-C60 1 micron)**

CAS Number: **99685-96-8**

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

Time Report Requested: **13:12:41**

**NTP Study Number:**

G07010

**Study Duration:**

13 Weeks

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Negative

**Female Study Result:**

Negative

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**G04: In Vivo Micronucleus Summary Data**

Test Compound: Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 09/23/2018

Time Report Requested: 13:12:41

Tissue: Blood; Sex: Male; Number of Treatments: 91; Time interval between final treatment and cell sampling: 24 h

Dose (mg/m3)	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	0.740 ± 0.124		5	0.034 ± 0.008		0.989 ± 0.072	
2.0	5	0.620 ± 0.096	1.0000	5	0.047 ± 0.015	0.1780	1.050 ± 0.118	0.7255
15.0	5	0.880 ± 0.185	0.8863	5	0.061 ± 0.005	0.1503	1.135 ± 0.062	0.3396
30.0	5	0.600 ± 0.094	1.0000	5	0.040 ± 0.006	0.1599	1.124 ± 0.096	0.3616
Trend p-Value		0.6068			0.3946		0.2514	

Trial Summary: Negative

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**Tissue: Blood; Sex: Female; Number of Treatments: 91; Time interval between final treatment and cell sampling: 24 h**

Dose (mg/m3)	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	0.620 ± 0.089		5	0.076 ± 0.024		1.243 ± 0.100	
2.0	5	0.790 ± 0.142	0.1737	5	0.040 ± 0.010	0.8514	1.272 ± 0.104	0.9541
15.0	5	0.940 ± 0.174	0.1268	5	0.042 ± 0.008	0.9125	1.338 ± 0.254	0.9950
30.0	5	0.761 ± 0.059	0.1342	5	0.070 ± 0.015	0.7281	1.225 ± 0.122	0.9906
Trend p-Value		0.2663			0.3721		0.8440	

Trial Summary: Negative

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LEGEND

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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 \*\***