

Experiment Number: **G07010B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Mouse/B6C3F1**

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: **13:17:29**

NTP Study Number:

G07010B

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: 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 ¹	5	2.720 ± 0.123		5	1.489 ± 0.046		1.494 ± 0.117	
2.0	5	2.670 ± 0.195	0.5642	5	1.381 ± 0.046	0.8838	1.786 ± 0.143	0.5321
15.0	5	2.660 ± 0.201	0.6514	5	1.385 ± 0.026	0.9366	1.761 ± 0.100	0.6355
30.0	5	2.980 ± 0.112	0.1776	5	1.390 ± 0.055	0.9527	1.372 ± 0.159	0.5453
Trend p-Value		0.1002			0.8353		0.2039	

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 ¹	5	1.680 ± 0.093		5	0.998 ± 0.010		1.428 ± 0.085	
2.0	5	2.320 ± 0.180	0.0276	5	1.037 ± 0.028	0.5886	1.617 ± 0.089	0.4541
15.0	5	1.850 ± 0.092	0.0328	5	0.970 ± 0.009	1.0000	1.642 ± 0.183	0.5461
30.0	5	2.000 ± 0.130	0.0348	5	0.998 ± 0.024	1.0000	1.588 ± 0.202	0.5813
Trend p-Value		0.4848			0.7704		0.7905	

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 ****