

Experiment Number: **G07009**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

G04: In Vivo Micronucleus Summary Data

Test Compound: **Nanoscale material (Fullerene-C60 50 nanometers)**

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

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

Time Report Requested: **13:03:08**

NTP Study Number:

G07009

Study Duration:

13 Weeks

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

Experiment Number: G07009

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Rat/Wistar Han

G04: In Vivo Micronucleus Summary Data

Test Compound: Nanoscale material (Fullerene-C60 50 nanometers)

CAS Number: 99685-96-8

Date Report Requested: 09/23/2018

Time Report Requested: 13:03:08

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	0.840 ± 0.129		5	0.057 ± 0.009		0.930 ± 0.103	
0.5	5	0.730 ± 0.155	0.5925	5	0.059 ± 0.011	0.7256	0.867 ± 0.057	0.7417
2.0	5	0.840 ± 0.192	0.5837	5	0.033 ± 0.003	0.8077	0.883 ± 0.107	0.8438
Trend p-Value		0.4379			0.9829		0.7632	

Trial Summary: Negative

Experiment Number: G07009

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Rat/Wistar Han

G04: In Vivo Micronucleus Summary Data

Test Compound: Nanoscale material (Fullerene-C60 50 nanometers)

CAS Number: 99685-96-8

Date Report Requested: 09/23/2018

Time Report Requested: 13:03:08

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	0.870 ± 0.066		5	0.126 ± 0.031		1.044 ± 0.078	
0.5	5	0.830 ± 0.096	0.6902	5	0.049 ± 0.007	0.9586	1.038 ± 0.073	0.9775
2.0	5	0.740 ± 0.070	0.7746	5	0.050 ± 0.010	0.9824	1.026 ± 0.153	0.8531
Trend p-Value		0.8831			0.9632		0.6986	

Trial Summary: Negative

Experiment Number: **G07009**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

G04: In Vivo Micronucleus Summary Data

Test Compound: **Nanoscale material (Fullerene-C60 50 nanometers)**

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

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

Time Report Requested: **13:03:08**

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 ****