

Experiment Number: **G04004**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Perfluorooctane Sulfonate**

CAS Number: **1763-23-1**

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

Time Report Requested: **11:27:19**

NTP Study Number:

G04004

Study Duration:

28 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Positive

Experiment Number: **G04004**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Gavage**
Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Perfluorooctane Sulfonate**
CAS Number: **1763-23-1**

Date Report Requested: **09/23/2018**
Time Report Requested: **11:27:19**

Tissue: Blood; Sex: Male; Number of Treatments: 28; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	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	0.500 ± 0.119		5	0.117 ± 0.034		0.826 ± 0.041	
0.312	5	0.890 ± 0.135	0.0769	5	0.142 ± 0.011	0.4306	0.751 ± 0.056	0.4817
0.625	5	0.760 ± 0.080	0.0916	5	0.160 ± 0.026	0.2850	0.756 ± 0.078	0.5678
1.25	5	0.670 ± 0.049	0.0977	5	0.083 ± 0.014	1.0000	0.681 ± 0.047	0.2273
2.5	5	0.720 ± 0.049	0.0989	5	0.069 ± 0.008	1.0000	0.537 ± 0.074	0.0034 *
5.0	5	0.700 ± 0.202	0.1008	5	0.096 ± 0.010	1.0000	0.409 ± 0.044	< 0.001 *
Trend p-Value		0.4657			0.9607		< 0.001 *	

Trial Summary: **Negative**

Experiment Number: **G04004**
 Test Type: **Genetic Toxicology - Micronucleus**
 Route: **Gavage**
 Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data
 Test Compound: **Perfluorooctane Sulfonate**
 CAS Number: **1763-23-1**

Date Report Requested: **09/23/2018**
 Time Report Requested: **11:27:19**

Tissue: Blood; Sex: Female; Number of Treatments: 28; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	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	0.430 ± 0.066		5	0.048 ± 0.004		0.934 ± 0.108	
0.312	5	0.519 ± 0.087	0.2477	5	0.057 ± 0.029	1.0000	0.826 ± 0.120	0.9611
0.625	5	0.590 ± 0.099	0.1999	5	0.032 ± 0.007	1.0000	1.047 ± 0.095	0.9965
1.25	5	0.590 ± 0.076	0.2151	5	0.027 ± 0.003	1.0000	0.855 ± 0.085	0.7633
2.5	5	0.490 ± 0.073	0.2210	5	0.024 ± 0.004	1.0000	0.625 ± 0.053	0.0244 *
5.0	5	0.769 ± 0.129	0.0085 *	5	0.031 ± 0.004	1.0000	0.490 ± 0.068	< 0.001 *
Trend p-Value		0.0142 *			0.9871		< 0.001 *	

Trial Summary: Positive

Experiment Number: **G04004**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Perfluorooctane Sulfonate**

CAS Number: **1763-23-1**

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

Time Report Requested: **11:27:19**

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: Deionized Water with 2% Tween 80

**** END OF REPORT ****