

Experiment Number: **G91070**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

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

G04: In Vivo Micronucleus Summary Data

Test Compound: **Perfluorooctanoic Acid**

CAS Number: **335-67-1**

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

Time Report Requested: **16:17:45**

NTP Study Number:

G91070

Study Duration:

28 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Positive

Female Study Result:

Negative

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Date Report Requested: 09/23/2018
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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	0.420 ± 0.046		5	0.115 ± 0.013		1.018 ± 0.050	
0.625	5	0.730 ± 0.054	0.0455	5	0.072 ± 0.009	0.9942	0.792 ± 0.042	0.1470
1.25	5	0.800 ± 0.148	0.0434	5	0.087 ± 0.012	0.9988	0.832 ± 0.041	0.1748
2.5	5	0.810 ± 0.098	0.0138 *	5	0.073 ± 0.010	0.9991	0.802 ± 0.060	0.1862
5.0	5	0.870 ± 0.060	0.0014 *	5	0.068 ± 0.003	0.9996	0.935 ± 0.153	0.1904
10.0	5	0.640 ± 0.091	0.2817	5	0.057 ± 0.005	0.9996	0.950 ± 0.082	0.1923
Trend p-Value		0.0246 *			0.9983		0.5297	

Trial Summary: Positive

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 Test Compound: **Perfluorooctanoic Acid**
 CAS Number: **335-67-1**

Date Report Requested: **09/23/2018**
 Time Report Requested: **16:17:45**

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	0.650 ± 0.157		5	0.048 ± 0.006		0.966 ± 0.154	
6.25	5	0.518 ± 0.045	0.7075	5	0.044 ± 0.013	1.0000	1.109 ± 0.071	1.0000
12.5	5	0.680 ± 0.056	0.7919	5	0.032 ± 0.002	1.0000	0.878 ± 0.094	1.0000
25.0	5	0.520 ± 0.123	0.8244	5	0.022 ± 0.004	1.0000	1.128 ± 0.137	1.0000
50.0	5	0.528 ± 0.083	0.8394	5	0.028 ± 0.002	1.0000	1.145 ± 0.236	1.0000
100.0	5	0.550 ± 0.065	0.8509	5	0.041 ± 0.009	1.0000	1.617 ± 0.171	0.0888
Trend p-Value		0.7404			0.9607		0.0481	

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: Deionized Water with 2% Tween 80

**** END OF REPORT ****