

Experiment Number: **F66268**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

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

G04: In Vivo Micronucleus Summary Data

Test Compound: **Methylphenidate hydrochloride**

CAS Number: **298-59-9**

Date Report Requested: **09/21/2018**

Time Report Requested: **17:07:39**

NTP Study Number:

F66268

Study Duration:

28 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 28; Time interval between final treatment and cell sampling: 28 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	0.540 ± 0.105		5	0.035 ± 0.009		1.111 ± 0.124	
2.0	5	0.892 ± 0.195	0.0902	5	0.034 ± 0.005	0.5222	0.806 ± 0.103	0.4944
10.0	5	0.774 ± 0.087	0.1089	5	0.045 ± 0.012	0.3667	1.212 ± 0.192	0.5923
25.0	5	0.760 ± 0.130	0.1153	5	0.039 ± 0.010	0.3892	0.926 ± 0.122	0.4547
Trend p-Value		0.3486			0.3337		0.8537	
Positive Control ²	5	4.890 ± 0.427	0.0044 *	5	0.062 ± 0.014	0.0637	0.876 ± 0.130	0.1989

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: Distilled Water

2: 100.0 mg/kg Ethyl Methane Sulfonate

**** END OF REPORT ****