

Experiment Number: **G04098**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Metal working fluids (Syntilo 1023)**

CAS Number: **SYNTILO1023**

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

Time Report Requested: **11:56:06**

**NTP Study Number:**

G04098

**Study Duration:**

13 Weeks

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Negative

**Female Study Result:**

Negative

Experiment Number: G04098

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**G04: In Vivo Micronucleus Summary Data**

Test Compound: Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 09/23/2018

Time Report Requested: 11:56:06

Tissue: Blood; Sex: Male; Number of Treatments: 65; 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 <sup>1</sup>	5	0.930 ± 0.089		5	0.056 ± 0.008		0.890 ± 0.057	
25.0	5	1.222 ± 0.210	0.3728	5	0.084 ± 0.030	1.0000	0.935 ± 0.032	1.0000
50.0	5	0.907 ± 0.099	0.4413	5	0.077 ± 0.015	1.0000	0.838 ± 0.061	0.9695
100.0	5	1.130 ± 0.124	0.4710	5	0.047 ± 0.005	1.0000	0.885 ± 0.071	0.9879
200.0	5	0.857 ± 0.090	0.4882	5	0.056 ± 0.006	1.0000	0.913 ± 0.080	0.9937
400.0	5	0.840 ± 0.135	0.4983	5	0.046 ± 0.003	1.0000	0.800 ± 0.122	0.3528
Trend p-Value		0.9169			0.7603		0.1924	

Trial Summary: Negative

Experiment Number: G04098

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Route: Inhalation

Species/Strain: Rat/Wistar Han

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 09/23/2018

Time Report Requested: 11:56:06

Tissue: Blood; Sex: Female; Number of Treatments: 65; 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 <sup>1</sup>	5	0.660 ± 0.111		5	0.056 ± 0.008		0.880 ± 0.049	
25.0	5	1.020 ± 0.114	0.1254	5	0.040 ± 0.006	0.9004	0.925 ± 0.084	1.0000
50.0	5	0.760 ± 0.113	0.1501	5	0.042 ± 0.006	0.9492	1.063 ± 0.043	0.4233
100.0	5	0.850 ± 0.160	0.1610	5	0.041 ± 0.004	0.9624	0.831 ± 0.046	1.0000
200.0	5	0.977 ± 0.113	0.1652	5	0.042 ± 0.006	0.9686	0.994 ± 0.155	1.0000
400.0	5	0.710 ± 0.114	0.1683	5	0.045 ± 0.006	0.9657	1.053 ± 0.099	1.0000
Trend p-Value		0.6341			0.6441		0.5257	

Trial Summary: Negative

Experiment Number: **G04098**

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Route: **Inhalation**

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

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Metal working fluids (Syntilo 1023)**

CAS Number: **SYNTHILO1023**

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

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LEGEND

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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 \*\***