

Experiment Number: **G99018**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Acetoin**

CAS Number: **513-86-0**

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

Time Report Requested: **16:46:17**

**NTP Study Number:**

G99018

**Study Duration:**

13 Weeks

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Negative

**Female Study Result:**

Negative

Experiment Number: G99018

**G04: In Vivo Micronucleus Summary Data**

Date Report Requested: 09/23/2018

Test Type: Genetic Toxicology - Micronucleus

Test Compound: Acetoin

Time Report Requested: 16:46:17

Route: Inhalation

CAS Number: 513-86-0

Species/Strain: Rat/Wistar Han

Tissue: Blood; Sex: Male; Number of Treatments: 61; Time interval between final treatment and cell sampling: 24 h

Dose (ppm)	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	0.960 ± 0.147		5	0.042 ± 0.007		0.648 ± 0.064	
50.0	5	0.580 ± 0.044	0.8081	5	0.042 ± 0.009	0.4823	0.717 ± 0.067	0.4083
100.0	5	0.770 ± 0.125	0.8799	5	0.052 ± 0.007	0.4692	0.831 ± 0.068	0.0563
200.0	5	0.920 ± 0.138	0.8332	5	0.045 ± 0.013	0.4998	0.871 ± 0.034	0.0209 *
400.0	5	0.750 ± 0.174	0.8481	5	0.040 ± 0.014	0.5179	0.877 ± 0.074	0.0201 *
800.0	5	0.980 ± 0.221	0.6072	5	0.050 ± 0.006	0.3649	1.014 ± 0.099	0.0016 *
Trend p-Value		0.1866			0.3409		0.0016 *	

Trial Summary: Negative

Experiment Number: G99018

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Route: Inhalation

Species/Strain: Rat/Wistar Han

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Acetoin

CAS Number: 513-86-0

Date Report Requested: 09/23/2018

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**Tissue: Blood; Sex: Female; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h**

Dose (ppm)	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	0.810 ± 0.168		5	0.073 ± 0.034		1.053 ± 0.182	
50.0	5	0.790 ± 0.111	0.5632	5	0.036 ± 0.007	1.0000	1.101 ± 0.138	1.0000
100.0	5	0.860 ± 0.109	0.6483	5	0.079 ± 0.014	0.3520	1.150 ± 0.147	1.0000
200.0	5	0.784 ± 0.143	0.6821	5	0.041 ± 0.010	1.0000	0.797 ± 0.060	0.5300
400.0	5	0.680 ± 0.096	0.7014	5	0.038 ± 0.007	1.0000	1.068 ± 0.023	1.0000
800.0	5	0.760 ± 0.157	0.7149	5	0.046 ± 0.008	1.0000	1.045 ± 0.086	1.0000
Trend p-Value		0.7122			0.5505		0.9278	

Trial Summary: Negative

Experiment Number: **G99018**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

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

**G04: In Vivo Micronucleus Summary Data**

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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 \*\***