

Experiment Number: **G99018B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Acetoin**

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

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

Time Report Requested: **16:51:02**

NTP Study Number:

G99018B

Study Duration:

13 Weeks

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

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Tissue: Blood; Sex: Male; 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 ¹	5	2.390 ± 0.212		5	1.511 ± 0.018		1.359 ± 0.051	
50.0	5	2.380 ± 0.159	0.5939	5	1.435 ± 0.024	0.9217	1.443 ± 0.038	0.7267
100.0	5	2.420 ± 0.164	0.6801	5	1.436 ± 0.043	0.9619	1.394 ± 0.034	0.8502
200.0	5	2.380 ± 0.072	0.7145	5	1.459 ± 0.030	0.9735	1.429 ± 0.094	0.8921
400.0	5	2.120 ± 0.152	0.7333	5	1.434 ± 0.022	0.9776	1.381 ± 0.065	0.9120
800.0	5	2.570 ± 0.142	0.2868	5	1.481 ± 0.016	0.9053	1.304 ± 0.054	0.6758
Trend p-Value		0.2949			0.4292		0.1579	

Trial Summary: Negative

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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 ¹	5	1.790 ± 0.233		5	1.044 ± 0.030		1.246 ± 0.123	
50.0	5	1.970 ± 0.160	0.3328	5	1.069 ± 0.028	1.0000	1.072 ± 0.226	1.0000
100.0	5	1.830 ± 0.117	0.3962	5	0.984 ± 0.026	1.0000	1.599 ± 0.204	0.6199
200.0	5	2.060 ± 0.185	0.2340	5	1.022 ± 0.013	1.0000	1.452 ± 0.039	0.6631
400.0	5	1.990 ± 0.230	0.2403	5	1.048 ± 0.030	1.0000	1.305 ± 0.071	0.6837
800.0	5	2.020 ± 0.097	0.2457	5	1.057 ± 0.055	1.0000	1.427 ± 0.203	0.6956
Trend p-Value		0.2092			0.5790		0.4946	

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: Air

**** END OF REPORT ****