

Experiment Number: **G09042**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Oral gavage**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Valerian Root Extract**
CAS Number: **8057-49-6**

Date Report Requested: **11/19/2018**

Time Report Requested: **10:37:56**

NTP Study Number:	G09042
Study Duration:	91 day
Study Methodology:	Flow cytometry
Male Study Result:	Negative
Female Study Result:	Weakly Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 91; Time interval between final treatment and cell sampling: 32 h

Dose (mg/kg/day)	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	2.550 ± 0.105		5	1.478 ± 0.042		1.817 ± 0.132	
125	5	2.830 ± 0.090	0.1401	5	1.581 ± 0.018	0.1423	1.803 ± 0.070	0.9763
250	5	3.060 ± 0.120	0.1679	5	1.462 ± 0.019	1.0000	1.548 ± 0.047	0.1526
500	5	2.600 ± 0.121	0.1807	5	1.449 ± 0.019	1.0000	1.648 ± 0.050	0.1625
1000	5	2.470 ± 0.146	0.1853	5	1.434 ± 0.057	1.0000	1.624 ± 0.040	0.1662
2000	5	2.800 ± 0.140	0.1052	5	1.469 ± 0.002	1.0000	1.788 ± 0.060	0.1671
Trend p-Value		0.5718			0.9338		0.7437	

Trial Summary: **Negative**

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Tissue: Blood; Sex: Female; Number of Treatments: 91; Time interval between final treatment and cell sampling: 32 h

Dose (mg/kg/day)	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	1.490 ± 0.197		5	0.992 ± 0.014		1.663 ± 0.283	
125	5	1.980 ± 0.221	0.0670	5	1.033 ± 0.062	0.3371	1.815 ± 0.164	0.5986
250	5	1.860 ± 0.261	0.0795	5	0.995 ± 0.039	0.4014	2.361 ± 0.618	0.4247
500	5	2.049 ± 0.104	0.0337	5	1.029 ± 0.017	0.4288	1.948 ± 0.243	0.4545
1000	5	2.120 ± 0.176	0.0189 *	5	1.021 ± 0.011	0.4435	2.287 ± 0.333	0.3266
2000	5	2.270 ± 0.179	0.0055 *	5	0.982 ± 0.028	0.4557	2.010 ± 0.249	0.3305
Trend p-Value		0.0106 *			0.7180		0.4186	

Trial Summary: Weakly Positive

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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

**** END OF REPORT ****