G04: In Vivo Micronucleus Summary Data (Study Method: Flow Cytometry)

Study Number: G09042
DTTID: TA-4
Study Type: In vivo peripheral blood micronucleus assay
Species/Strain: Mouse/B6C3F1

Test Compound: Valerian Root Extract
CAS Number: 8057-49-6
DTXSID: DTXSID001017359

Date: 2023-04-19
Time: 2:26:56 PM

Evaluation of micronuclei in peripheral blood from B6C3F1 Mice for 91 days via oral gavage

Valerian Root Extract; Male				
	MN-RET/1000	MN-E/1000	%RET	Summary
Vehicle Control (Deionized water)				
0 mg/kg/day	2.55±0.10[5],	1.48±0.04[5],	1.82±0.13[5],	
Test Chemical				
125 mg/kg/day	2.83±0.09[5],0.3021	1.58±0.02[5],0.1423	1.80±0.07[5],1.0000	
250 mg/kg/day	3.06±0.12[5],0.0275	1.46±0.02[5],1.0000	1.55±0.05[5],0.2030	
500 mg/kg/day	2.60±0.12[5],1.0000	1.45±0.02[5],1.0000	1.65±0.05[5],1.0000	
1000 mg/kg/day	2.47±0.15[5],1.0000	1.43±0.06[5],1.0000	1.62±0.04[5],0.8613	
2000 mg/kg/day	2.80±0.14[5],0.4403	1.47±0.00[5],1.0000	1.79±0.06[5],1.0000	
Trend Significance				
p-value	0.5651	0.9338	0.9566	
Male Mouse Study				
Result				Negative

Valerian Root Extract; Female				
	MN-RET/1000	MN-E/1000	%RET	Summary
Vehicle Control (Deionized water)				
0 mg/kg/day	1.49±0.20[5],	0.99±0.01[5],	1.66±0.28[5],	
Test Chemical				
125 mg/kg/day	1.98±0.22[5],0.3274	1.03±0.06[5],1.0000	1.81±0.16[5],1.0000	
250 mg/kg/day	1.86±0.26[5],0.6623	1.00±0.04[5],1.0000	2.36±0.62[5],1.0000	
500 mg/kg/day	2.05±0.10[5],0.2275	1.03±0.02[5],0.4306	1.95±0.24[5],1.0000	
1000 mg/kg/day	2.12±0.18[5],0.1054	1.02±0.01[5],0.9716	2.29±0.33[5],0.7538	
2000 mg/kg/day	2.27±0.18[5],0.0311	0.98±0.03[5],1.0000	2.01±0.25[5],1.0000	
Trend Significance				
p-value	0.0052*	0.3928	0.2109	
Female Mouse Study				
Result				Equivocal

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LEGEND

CAS Number = Chemical Abstract Service registry number
MN = micronucleated; RET = reticulocyte; E = erythrocyte
Values given as Mean ± Standard Error of the Mean (SEM) [Number of Test Subjects], p-value
MN-RET/1000 and MN-E/1000: Pairwise comparison of treated groups vs the vehicle control group; values are significant at $p \leq 0.025$ by one-sided Dunn's test; dose-related trend, significant at $p \leq 0.025$ by one-sided Jonckheere's test
%RET: Pairwise comparison of treated groups vs the vehicle control group; values are significant at $p \leq 0.025$ by two-sided Dunn's test; dose-related trend, significant at $p \leq 0.025$ by two-sided Jonckheere's test

*Statistically significant pairwise or trend test

** END OF REPORT **