

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I99067

Test Compound: Echinacea purpurea extract

Date: 18 Jun 2025

DTTID: 103-002-003-000-9

CAS Number: 90028-20-9

Time: 10:57:47 AM

Study Type: immune screening

DTXSID: DTXSID0031265

Species/Strain: Rat/Harlan Sprague Dawley

Females: Immunopath

	Treatment Groups						
	0 mg/kg	125 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg	2000 mg/kg	15 mg/kg CPS
Leukocytes (x10 ³ /μL)	8.468 ± 0.812[11]	8.884 ± 0.562[11]	11.246 ± 0.383[11]*	9.999 ± 0.499[11]	9.504 ± 0.582[11]	10.164 ± 0.639[12]	2.738 ± 0.192[8]**
Absolute counts							
Neutrophils (x10 ³ /μL)	0.665 ± 0.043[11]	0.805 ± 0.101[11]	1.019 ± 0.105[11]*	0.831 ± 0.076[11]	0.805 ± 0.083[11]	0.781 ± 0.068[12]	0.394 ± 0.043[8]**
Lymphocytes (x10 ³ /μL)	7.358 ± 0.745[11]	7.657 ± 0.501[11]	9.676 ± 0.329[11]*	8.694 ± 0.438[11]	8.244 ± 0.507[11]	8.883 ± 0.560[12]	2.164 ± 0.170[8]**
Monocytes (x10 ³ /μL)	0.174 ± 0.024[11]	0.160 ± 0.014[11]	0.211 ± 0.016[11]	0.198 ± 0.015[11]	0.185 ± 0.015[11]	0.195 ± 0.021[12]	0.044 ± 0.006[8]**
Eosinophils (x10 ³ /μL)	0.146 ± 0.019[11]	0.131 ± 0.023[11]	0.155 ± 0.020[11]	0.116 ± 0.008[11]	0.125 ± 0.016[11]	0.108 ± 0.011[12]	0.096 ± 0.025[8]
Basophils (x10 ³ /μL)	0.055 ± 0.008[11]	0.056 ± 0.007[11]	0.082 ± 0.004[11]*	0.064 ± 0.009[11]	0.061 ± 0.008[11]	0.080 ± 0.010[12]	0.015 ± 0.004[8]**
Large Unstained Cells (x10 ³ /μL)	0.071 ± 0.010[11]*	0.077 ± 0.010[11]	0.103 ± 0.010[11]	0.095 ± 0.015[11]	0.084 ± 0.011[11]	0.118 ± 0.013[12]*	0.025 ± 0.003[8]**
Relative counts							
Percent Lymphocytes (%)	86.54 ± 0.66[11]	86.18 ± 1.00[11]	86.08 ± 0.88[11]	86.95 ± 0.68[11]	86.79 ± 0.85[11]	87.42 ± 0.48[12]	78.78 ± 1.96[8]**
Percent Neutrophils (%)	8.25 ± 0.59[11]	9.06 ± 0.89[11]	9.06 ± 0.85[11]	8.34 ± 0.67[11]	8.42 ± 0.67[11]	7.68 ± 0.46[12]	14.73 ± 1.78[8]**
Percent Monocytes (%)	1.98 ± 0.18[11]	1.75 ± 0.09[11]	1.85 ± 0.11[11]	1.98 ± 0.12[11]	1.94 ± 0.13[11]	1.89 ± 0.13[12]	1.61 ± 0.19[8]
Percent Eosinophils (%)	1.84 ± 0.25[11]**	1.54 ± 0.32[11]	1.35 ± 0.13[11]	1.17 ± 0.09[11]*	1.37 ± 0.19[11]*	1.09 ± 0.14[12]**	3.41 ± 0.77[8]
Percent Basophils (%)	0.62 ± 0.04[11]	0.60 ± 0.05[11]	0.72 ± 0.04[11]	0.61 ± 0.05[11]	0.62 ± 0.05[11]	0.77 ± 0.07[12]	0.58 ± 0.10[8]
Percent Large Unstained Cells (%)	0.81 ± 0.07[11]*	0.84 ± 0.09[11]	0.94 ± 0.08[11]	0.93 ± 0.13[11]	0.86 ± 0.07[11]	1.17 ± 0.11[12]	0.93 ± 0.11[8]

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. The positive control group (15 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (15 mg/kg CPS) compared to the vehicle control group was performed using the Wilcoxon rank sum test.

Statistical significance for the control group indicates a significant trend test.

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group.

* Statistically significant at $p \leq 0.05$

** Statistically significant at $p \leq 0.01$

CPS = Cyclophosphamide

SEM = Standard Error of the Mean

SD = Study Day

Females from the vehicle control and treatment groups were removed on SD 28.

** END OF REPORT **