

M04: Hematology

Study Number: I99067

DTTID: 103-002-003-000-9

Study Type: immune screening

Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: Echinacea purpurea extract

CAS Number: 90028-20-9

DTXSID: DTXSID0031265

Date: 06 Jun 2025

Time: 10:50:09 AM

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
Absolute counts							
Erythrocyte (x10 ⁶)	8.553 ± 0.200[11]	8.279 ± 0.217[11]	8.618 ± 0.211[11]	8.565 ± 0.147[10]	8.528 ± 0.234[11]	8.553 ± 0.199[12]	8.673 ± 0.286[8]
Hemoglobin (g/dL)	15.73 ± 0.31[11]	15.38 ± 0.34[11]	15.79 ± 0.27[11]	15.50 ± 0.20[10]	15.65 ± 0.40[11]	15.53 ± 0.36[12]	15.66 ± 0.50[8]
Hematocrit (%)	49.92 ± 1.28[11]	49.14 ± 1.35[11]	50.38 ± 1.04[11]	49.45 ± 0.72[10]	50.38 ± 1.51[11]	49.97 ± 1.29[12]	50.76 ± 1.80[8]
MCV (fL)	58.32 ± 0.20[11]	59.33 ± 0.27[11]	58.52 ± 0.34[11]	57.76 ± 0.40[10]	59.06 ± 0.34[11]	58.40 ± 0.46[12]	58.51 ± 0.39[8]
MCH (pg)	18.40 ± 0.12[11]*	18.60 ± 0.13[11]	18.37 ± 0.15[11]	18.12 ± 0.16[10]	18.37 ± 0.12[11]	18.13 ± 0.14[12]	18.11 ± 0.14[8]
MCHC (g/dL)	31.56 ± 0.21[11]*	31.34 ± 0.19[11]	31.37 ± 0.13[11]	31.37 ± 0.10[10]	31.14 ± 0.18[11]	31.08 ± 0.12[12]	30.94 ± 0.19[8]*
Platelets (x10 ³)	696.8 ± 51.3[11]	717.5 ± 43.1[11]	679.9 ± 56.1[11]	749.1 ± 19.3[11]	690.2 ± 41.3[11]	698.5 ± 42.1[12]	647.6 ± 88.3[8]
Leukocyte (x10 ³)	8.47 ± 0.81[11]	8.88 ± 0.56[11]	11.25 ± 0.38[11]*	10.00 ± 0.50[11]	9.50 ± 0.58[11]	10.16 ± 0.64[12]	2.74 ± 0.19[8]**
Reticulocytes (x10 ³)	285.01 ± 12.54[11]*	215.24 ± 7.23[11]**	234.94 ± 7.57[11]	221.06 ± 8.21[11]**	230.59 ± 12.79[11]	230.18 ± 14.45[12]**	25.75 ± 4.81[8]**
Relative counts							
Percent Reticulocytes (%)	3.334 ± 0.129[11]*	2.605 ± 0.079[11]**	2.739 ± 0.104[11]	2.616 ± 0.119[11]*	2.694 ± 0.114[11]	2.705 ± 0.171[12]*	0.296 ± 0.057[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 $p \leq 0.01$

SEM = Standard Error of the Mean

MCV = Mean Corpuscular Volume; MCH = Mean Corpuscular Hemoglobin; MCHC = Mean Cell Hemoglobin Concentration

SD = Study Day

CPS = Cyclophosphamide

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

Hematology data not reported was removed as an outlier, or was due to pre-analytical or analytical conditions or errors including but not limited to: short sample, quantity not sufficient, or clotted sample.

** END OF REPORT **