

M04: Hematology

Study Number: I20263
DTTID: 104-016-002-000-4

Study Type: Immune screening with perinatal exposure
Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: Tris(chloropropyl) phosphate
CAS Number: 13674-84-5
DTXSID: DTXSID201016652

Date: 28 May 2024
Time: 4:52:18 PM

F1 Males: Immunopath

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Absolute counts					
Erythrocyte (x10 ⁶)	8.705 ± 0.099[11]	8.649 ± 0.080[12]	8.537 ± 0.079[12]	8.403 ± 0.085[10]	8.531 ± 0.200[8]
Hemoglobin (g/dL)	15.60 ± 0.18[11]**	15.56 ± 0.12[12]	15.31 ± 0.10[12]	15.07 ± 0.15[10]*	15.13 ± 0.29[8]
Hematocrit (%)	49.81 ± 0.65[11]**	49.91 ± 0.45[12]	48.61 ± 0.40[12]	48.43 ± 0.50[10]	48.30 ± 1.05[8]
MCV (fL)	57.21 ± 0.37[11]	57.70 ± 0.30[12]	56.97 ± 0.49[12]	57.64 ± 0.43[10]	56.63 ± 0.41[8]
MCH (pg)	17.92 ± 0.13[11]	17.98 ± 0.12[12]	17.96 ± 0.14[12]	17.93 ± 0.14[10]	17.78 ± 0.14[8]
MCHC (g/dL)	31.31 ± 0.21[11]	31.18 ± 0.12[12]	31.52 ± 0.11[12]	31.11 ± 0.15[10]	31.34 ± 0.19[8]
Platelets (x10 ³)	646.7 ± 39.3[12]	661.9 ± 42.1[12]	665.9 ± 24.7[12]	679.6 ± 23.8[11]	480.0 ± 31.5[8]**
Leukocyte (x10 ³)	8.80 ± 0.35[12]	8.44 ± 0.38[12]	9.20 ± 0.36[12]	8.75 ± 0.97[11]	4.19 ± 0.57[8]**
Reticulocytes (x10 ³)	241.79 ± 8.19[12]	236.84 ± 6.96[12]	236.38 ± 3.63[12]	230.31 ± 9.51[11]	34.94 ± 8.26[8]**
Relative counts					
Percent Reticulocytes (%)	2.736 ± 0.075[12]	2.743 ± 0.089[12]	2.770 ± 0.044[12]	2.741 ± 0.118[11]	0.401 ± 0.085[8]**

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F1 Females: Immunopath

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Absolute counts					
Erythrocyte (x10 ⁶)	7.893 ± 0.059[11]	7.868 ± 0.050[11]	7.686 ± 0.052[12]	7.902 ± 0.070[11]	7.501 ± 0.083[7]**
Hemoglobin (g/dL)	15.00 ± 0.12[11]	15.17 ± 0.08[11]	14.63 ± 0.09[12]	14.96 ± 0.10[11]	13.97 ± 0.08[7]**
Hematocrit (%)	46.71 ± 0.43[11]	47.45 ± 0.31[11]	45.70 ± 0.33[12]	46.29 ± 0.38[11]	43.46 ± 0.29[7]**
MCV (fL)	59.16 ± 0.36[11]	60.28 ± 0.20[11]	59.48 ± 0.44[12]	58.64 ± 0.50[11]	57.97 ± 0.58[7]
MCH (pg)	19.00 ± 0.09[11]	19.31 ± 0.08[11]	19.04 ± 0.11[12]	18.94 ± 0.18[11]	18.66 ± 0.21[7]
MCHC (g/dL)	32.12 ± 0.18[11]	32.01 ± 0.11[11]	32.02 ± 0.14[12]	32.31 ± 0.25[11]	32.17 ± 0.18[7]
Platelets (x10 ³)	659.3 ± 32.1[12]	694.4 ± 32.7[11]	669.8 ± 25.8[12]	658.7 ± 13.4[11]	542.4 ± 48.0[8]
Leukocyte (x10 ³)	7.85 ± 0.60[12]	7.41 ± 0.52[11]	7.74 ± 0.34[12]	7.70 ± 0.36[11]	2.46 ± 0.21[8]**
Reticulocytes (x10 ³)	214.71 ± 10.20[12]	241.77 ± 10.87[11]	230.52 ± 11.52[12]	215.35 ± 14.86[11]	11.80 ± 1.96[8]**
Relative counts					
Percent Reticulocytes (%)	2.688 ± 0.117[12]	3.073 ± 0.141[11]	3.006 ± 0.164[12]	2.725 ± 0.190[11]	0.158 ± 0.027[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

Males from the vehicle control and treatment groups were removed on SD 91-92; females were removed on SD 84-85.

Animals from the positive control group (15 mg/kg CPS) were purchased from a commercial source, age matched to the F1 animals, and removed on the same day as the F1 animals.

OUTLIERS

One male value each for Erythrocyte Count, Hemaglobin, Hematocrit, Mean Cell Hemoglobin, Mean Cell Hemoglobin Concentration, and Mean Cell Volume in the 0 ppm group were excluded.

One male value each for Erythrocyte Count, Hemaglobin, Hematocrit, Mean Cell Hemoglobin, Mean Cell Hemoglobin Concentration, and Mean Cell Volume in the 10000 ppm group were excluded.

One female value each for Erythrocyte Count, Hemaglobin, Hematocrit, Mean Cell Hemoglobin, Mean Cell Hemoglobin Concentration, and Mean Cell Volume in the 0 ppm group were excluded.

One female value each for Erythrocyte Count, Hemaglobin, Hematocrit, Mean Cell Hemoglobin, Mean Cell Hemoglobin Concentration, and Mean Cell Volume in the 15 mg/kg CPS group were excluded.

**** END OF REPORT ****