

M04: Hematology

Study Number: I07062B

DTTID: 108-006-006-000-1

Study Type: Immune screening

Species/Strain: Mouse/B6C3F1/N

Test Compound: 1020 Long Multiwalled Carbon Nanotubes

CAS Number: L-MWNT-1020

DTXSID: DTXSID601356181

Date: 29 Aug 2024

Time: 3:40:02 PM

Females: Immunopathology

	Treatment Groups				
	0 mg/m ³	0.06 mg/m ³	0.2 mg/m ³	0.6 mg/m ³	50 mg/kg CPS
Absolute counts					
Erythrocyte (x10 ⁶)	9.833 ± 0.165[8]	9.980 ± 0.122[8]	9.739 ± 0.199[7]	9.883 ± 0.074[7]	8.661 ± 0.070[7]**
Hemoglobin (g/dL)	15.10 ± 0.18[8]	15.30 ± 0.20[8]	14.77 ± 0.25[7]	15.14 ± 0.12[7]	13.47 ± 0.13[7]**
Hematocrit (%)	51.19 ± 1.12[8]	51.96 ± 0.86[8]	51.11 ± 1.09[7]	51.20 ± 0.56[7]	45.39 ± 0.38[7]**
MCV (fL)	52.03 ± 0.27[8]	52.03 ± 0.28[8]	52.47 ± 0.30[7]	51.79 ± 0.32[7]	52.39 ± 0.13[7]
MCH (pg)	15.39 ± 0.09[8]	15.34 ± 0.07[8]	15.19 ± 0.19[7]	15.30 ± 0.07[7]	15.56 ± 0.05[7]
MCHC (g/dL)	29.55 ± 0.29[8]	29.46 ± 0.19[8]	28.90 ± 0.30[7]	29.53 ± 0.16[7]	29.70 ± 0.14[7]
Platelets (x10 ³)	1024.8 ± 37.9[8]	1086.9 ± 38.5[8]	995.4 ± 52.2[7]	938.0 ± 56.1[7]	1176.4 ± 34.5[7]*
Leukocyte (x10 ³)	11.09 ± 0.74[6]	8.95 ± 0.81[8]	9.93 ± 0.47[7]	10.01 ± 0.56[7]	2.64 ± 0.46[7]**
Reticulocytes (x10 ³)	274.63 ± 14.77[8]	320.45 ± 20.13[8]	297.66 ± 13.86[7]	286.07 ± 13.67[7]	54.54 ± 8.05[7]**
Relative counts					
Percent Reticulocytes (%)	2.790 ± 0.134[8]	3.204 ± 0.181[8]	3.064 ± 0.153[7]	2.896 ± 0.140[7]	0.630 ± 0.092[7]**

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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 (50 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (50 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 37.

OUTLIERS

Decrease in N for the Leukocyte measurement in the 0 mg/m³ dose group is due to two animals' values being excluded because they were outliers.

** END OF REPORT **