

M04: Hematology

Study Number: I07062C

DTTID: 108-006-008-000-3

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: 4:02:37 PM

Females: Immunopath

	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)	10.284 ± 0.139[8]	10.403 ± 0.153[6]	10.138 ± 0.113[8]	10.119 ± 0.099[8]	8.870 ± 0.074[7]**
Hemoglobin (g/dL)	15.60 ± 0.20[8]	15.83 ± 0.16[6]	15.55 ± 0.16[8]	15.50 ± 0.15[8]	13.79 ± 0.16[7]**
Hematocrit (%)	53.19 ± 0.84[8]	54.00 ± 0.86[6]	52.54 ± 0.86[8]	52.76 ± 0.53[8]	46.36 ± 0.60[7]**
MCV (fL)	51.73 ± 0.23[8]	51.87 ± 0.11[6]	51.79 ± 0.33[8]	52.18 ± 0.17[8]	52.24 ± 0.34[7]
MCH (pg)	15.18 ± 0.07[8]	15.22 ± 0.28[6]	15.34 ± 0.10[8]	15.31 ± 0.07[8]	15.56 ± 0.12[7]*
MCHC (g/dL)	29.35 ± 0.22[8]	29.33 ± 0.53[6]	29.64 ± 0.25[8]	29.40 ± 0.18[8]	29.80 ± 0.28[7]
Platelets (x10 ³)	880.8 ± 87.8[8]**	797.0 ± 48.3[6]	665.8 ± 89.6[8]	610.1 ± 69.0[8]*	810.4 ± 72.7[7]
Leukocyte (x10 ³)	9.19 ± 0.48[8]*	9.22 ± 0.36[6]	8.25 ± 0.45[8]	7.52 ± 0.85[8]	2.87 ± 0.57[7]**
Reticulocytes (x10 ³)	217.04 ± 18.54[8]	191.13 ± 9.32[6]	205.80 ± 11.94[8]	215.33 ± 12.92[8]	21.97 ± 1.38[7]**
Relative counts					
Percent Reticulocytes (%)	2.110 ± 0.177[8]	1.838 ± 0.092[6]	2.026 ± 0.105[8]	2.130 ± 0.128[8]	0.249 ± 0.016[7]**

M04: Hematology

Study Number: I07062C

DTTID: 108-006-008-000-3

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: 4:02:37 PM

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 101.

**** END OF REPORT ****