

M03: Peripheral Blood Leukocyte Cell Differential

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: 3:38:41 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
Leukocytes (x10 ³ /μL)	11.088 ± 0.744[6]	8.949 ± 0.806[8]	9.933 ± 0.468[7]	10.009 ± 0.559[7]	2.636 ± 0.458[7]**
Absolute counts					
Lymphocytes (x10 ³ /μL)	9.377 ± 0.677[6]	7.651 ± 0.716[8]	8.403 ± 0.457[7]	8.564 ± 0.522[7]	2.299 ± 0.412[7]**
Neutrophils (x10 ³ /μL)	1.143 ± 0.049[6]	0.854 ± 0.057[8]*	1.027 ± 0.079[7]	0.903 ± 0.059[7]	0.220 ± 0.035[7]**
Monocytes (x10 ³ /μL)	0.162 ± 0.013[6]	0.113 ± 0.005[8]*	0.150 ± 0.010[7]	0.161 ± 0.017[7]	0.019 ± 0.005[7]**
Eosinophils (x10 ³ /μL)	0.228 ± 0.051[6]	0.121 ± 0.014[8]	0.174 ± 0.025[7]	0.193 ± 0.029[7]	0.046 ± 0.015[7]**
Basophils (x10 ³ /μL)	0.040 ± 0.010[6]	0.045 ± 0.011[8]	0.043 ± 0.006[7]	0.037 ± 0.006[7]	0.004 ± 0.002[7]**
Large Unstained Cells (x10 ³ /μL)	0.140 ± 0.039[6]	0.161 ± 0.045[8]	0.141 ± 0.023[7]	0.146 ± 0.027[7]	0.049 ± 0.009[7]**
Relative counts					
Percent Lymphocytes (%)	84.42 ± 0.72[6]	85.26 ± 0.65[8]	84.43 ± 0.90[7]	85.43 ± 0.75[7]	86.86 ± 1.46[7]
Percent Neutrophils (%)	10.43 ± 0.49[6]	9.88 ± 0.75[8]	10.56 ± 1.16[7]	9.10 ± 0.54[7]	8.67 ± 0.74[7]
Percent Monocytes (%)	1.50 ± 0.18[6]	1.31 ± 0.09[8]	1.51 ± 0.07[7]	1.60 ± 0.13[7]	0.70 ± 0.14[7]*
Percent Eosinophils (%)	2.10 ± 0.51[6]	1.36 ± 0.07[8]	1.71 ± 0.22[7]	2.00 ± 0.33[7]	1.73 ± 0.52[7]
Percent Basophils (%)	0.37 ± 0.06[6]	0.49 ± 0.10[8]	0.40 ± 0.06[7]	0.39 ± 0.06[7]	0.19 ± 0.05[7]
Percent Large Unstained Cells (%)	1.18 ± 0.23[6]	1.70 ± 0.35[8]	1.40 ± 0.20[7]	1.49 ± 0.30[7]	1.89 ± 0.44[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

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 37.

**** END OF REPORT ****