M07: TDAR SRBC: Spleen AFC

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: 4:05:06 PM

Females: SRBC

	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
Spleen Weight (g)	0.119 ± 0.004[8]*	0.102 ± 0.008[8]	0.103 ± 0.006[8]	0.103 ± 0.004[8]	0.042 ± 0.002[8]**
Spleen Cells (x10^6)	124.46 ± 5.37[8]*	105.38 ± 10.58[8]	90.90 ± 4.28[8]**	100.54 ± 5.06[8]	31.21 ± 1.79[8]**
AFC/10^6 Spleen Cells	976.1 ± 142.8[8]	1132.9 ± 231.8[8]	756.8 ± 144.4[8]	811.5 ± 125.3[8]	575.8 ± 148.1[8]
AFC/Spleen (x10^2)	1213.9 ± 196.1[8]	1094.1 ± 157.8[8]	699.8 ± 126.3[8]	822.9 ± 137.8[8]	173.8 ± 43.9[8]**

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LEGEND

Data are displayed as mean $\pm$ SEM (N) unless otherwise noted.

Statistical analysis was performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints. The positive control group (50 mg/kg CPS) was excluded from the trend test.

Statistical analysis for the positive control group (50 mg/kg CPS) compared to the vehicle control group was performed using a t-test for organ weights and a Wilcoxon rank sum test for all other endpoints.

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 $P \leq 0.01$

TDAR = T-Dependent Antibody Response; SRBC = Sheep Red Blood Cells; AFC = Antibody-Forming Cells

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 106.

** END OF REPORT **