

M07: TDAR SRBC: Spleen AFC

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: 3:42:16 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)	0.105 ± 0.005[7]	0.107 ± 0.005[8]	0.106 ± 0.002[8]	0.106 ± 0.003[8]	0.048 ± 0.003[8]**
Spleen Cells (x10 ⁶)	80.14 ± 6.78[7]	76.65 ± 5.00[8]	98.96 ± 6.30[8]	95.06 ± 8.39[8]	20.09 ± 2.35[8]**
AFC/10 ⁶ Spleen Cells	553.2 ± 94.3[7]	574.5 ± 111.2[8]	422.2 ± 62.8[8]	370.7 ± 64.1[8]	19.1 ± 10.5[8]**
AFC/Spleen (x10 ²)	427.5 ± 77.0[7]	421.3 ± 69.5[8]	429.2 ± 79.0[8]	349.3 ± 61.1[8]	3.4 ± 1.9[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 39.

**** END OF REPORT ****