

PA06: Organ Weights Summary

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: 05 Sep 2024

Time: 12:23:54 PM

F1 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
Terminal Body Weight (g)	25.1 ± 0.2[7]	24.7 ± 0.6[8]	25.0 ± 0.6[8]	25.7 ± 0.6[8]	24.0 ± 0.5[8]
Spleen					
Absolute (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]**
Relative (mg/g)	4.19 ± 0.20[7]	4.33 ± 0.25[8]	4.27 ± 0.12[8]	4.14 ± 0.10[8]	2.00 ± 0.11[8]**
Thymus					
Absolute (g)	0.044 ± 0.003[7]*	0.052 ± 0.002[8]	0.053 ± 0.003[8]	0.055 ± 0.003[8]*	0.026 ± 0.002[8]**
Relative (mg/g)	1.76 ± 0.13[7]	2.11 ± 0.09[8]	2.11 ± 0.10[8]	2.13 ± 0.10[8]*	1.06 ± 0.08[8]**

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F1 Females: KLH

		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
Terminal Body Weight (g)		25.0 ± 0.3[8]	27.0 ± 0.9[8]*	24.9 ± 0.4[8]	24.2 ± 0.3[8]	24.0 ± 0.5[8]
Spleen						
Absolute (g)		0.077 ± 0.001[8]	0.088 ± 0.003[8]**	0.080 ± 0.002[8]	0.077 ± 0.002[8]	0.075 ± 0.002[8]
Relative (mg/g)		3.07 ± 0.05[8]	3.28 ± 0.16[8]	3.22 ± 0.04[8]	3.19 ± 0.07[8]	3.15 ± 0.08[8]
Thymus						
Absolute (g)		0.048 ± 0.004[8]	0.051 ± 0.003[8]	0.052 ± 0.002[8]	0.053 ± 0.004[8]	0.018 ± 0.002[8]**
Relative (mg/g)		1.93 ± 0.14[8]	1.90 ± 0.12[8]	2.09 ± 0.08[8]	2.18 ± 0.15[8]	0.74 ± 0.07[8]**

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F1 Females: Immunophenotyping

	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
Terminal Body Weight (g)	24.9 ± 0.4[8]	24.5 ± 0.5[8]	24.4 ± 0.4[7]	23.9 ± 0.5[8]	23.2 ± 0.3[8]*
Spleen					
Absolute (g)	0.083 ± 0.003[8]	0.082 ± 0.003[8]	0.085 ± 0.003[7]	0.082 ± 0.001[8]	0.047 ± 0.003[8]**
Relative (mg/g)	3.34 ± 0.11[8]	3.34 ± 0.11[8]	3.48 ± 0.12[7]	3.44 ± 0.07[8]	2.02 ± 0.12[8]**
Thymus					
Absolute (g)	0.069 ± 0.003[8]	0.067 ± 0.002[7]	0.067 ± 0.002[7]	0.065 ± 0.004[8]	0.020 ± 0.003[8]**
Relative (mg/g)	2.80 ± 0.13[8]	2.76 ± 0.07[7]	2.74 ± 0.09[7]	2.72 ± 0.15[8]	0.88 ± 0.12[8]**

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F1 Females: CTL

	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
Terminal Body Weight (g)	18.2 ± 0.3[8]	17.8 ± 0.4[8]	18.1 ± 0.3[7]	18.6 ± 0.3[8]	18.9 ± 0.3[8]
Spleen					
Absolute (g)	0.076 ± 0.005[8]	0.069 ± 0.009[8]	0.081 ± 0.002[7]	0.081 ± 0.003[8]	0.032 ± 0.001[8]**
Relative (mg/g)	4.13 ± 0.21[8]	3.87 ± 0.48[8]	4.45 ± 0.11[7]	4.37 ± 0.14[8]	1.69 ± 0.06[8]**
Thymus					
Absolute (g)	0.025 ± 0.004[8]	0.026 ± 0.006[8]	0.025 ± 0.005[7]	0.028 ± 0.004[8]	0.010 ± 0.001[8]**
Relative (mg/g)	1.34 ± 0.21[8]	1.49 ± 0.32[8]	1.38 ± 0.24[7]	1.51 ± 0.23[8]	0.51 ± 0.08[8]**

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F1 Females: NK

		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
Terminal Body Weight (g)		22.0 ± 0.5[8]	21.6 ± 0.5[7]	21.1 ± 0.4[7]	21.0 ± 0.4[8]	20.7 ± 0.4[8]
Spleen						
	Absolute (g)	0.076 ± 0.002[8]	0.072 ± 0.002[7]	0.074 ± 0.002[7]	0.080 ± 0.003[8]	0.041 ± 0.002[8]**
	Relative (mg/g)	3.47 ± 0.11[8]*	3.37 ± 0.14[7]	3.51 ± 0.09[7]	3.80 ± 0.13[8]	2.00 ± 0.08[8]**
Thymus						
	Absolute (g)	0.075 ± 0.040[8]	0.033 ± 0.002[7]	0.034 ± 0.003[7]	0.036 ± 0.003[8]	0.015 ± 0.001[8]
	Relative (mg/g)	3.32 ± 1.72[8]	1.56 ± 0.13[7]	1.59 ± 0.15[7]	1.69 ± 0.14[8]	0.70 ± 0.03[8]

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F1 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
Terminal Body Weight (g)	23.3 ± 0.4[8]	23.4 ± 0.7[8]	23.0 ± 0.4[7]	23.0 ± 0.3[8]	23.0 ± 0.4[7]
Adrenal Gland, Right					
Absolute (g)	0.0047 ± 0.0004[8]	0.0045 ± 0.0004[8]	0.0050 ± 0.0003[7]	0.0053 ± 0.0003[8]	0.0045 ± 0.0003[8]
Relative (mg/g)	0.20 ± 0.02[8]	0.20 ± 0.02[8]	0.22 ± 0.01[7]	0.23 ± 0.02[8]	0.20 ± 0.01[7]
Kidney, Right					
Absolute (g)	0.19 ± 0.01[8]	0.19 ± 0.01[7]	0.19 ± 0.00[7]	0.19 ± 0.00[8]	0.19 ± 0.00[8]
Relative (mg/g)	8.19 ± 0.15[8]	8.04 ± 0.14[7]	8.13 ± 0.14[7]	8.28 ± 0.16[8]	8.23 ± 0.23[7]
Liver					
Absolute (g)	1.32 ± 0.04[8]	1.33 ± 0.05[8]	1.29 ± 0.04[7]	1.27 ± 0.02[8]	1.34 ± 0.03[8]
Relative (mg/g)	56.56 ± 0.91[8]	56.89 ± 1.00[8]	56.08 ± 0.92[7]	55.46 ± 1.05[8]	58.39 ± 1.06[7]
Lung					
Absolute (g)	0.27 ± 0.01[8]	0.31 ± 0.03[8]	0.30 ± 0.01[7]	0.29 ± 0.01[8]	0.33 ± 0.02[8]*
Relative (mg/g)	11.76 ± 0.45[8]	13.01 ± 1.13[8]	13.22 ± 0.41[7]	12.65 ± 0.52[8]	14.39 ± 0.87[7]*
Spleen					
Absolute (g)	0.073 ± 0.005[8]	0.078 ± 0.002[8]	0.078 ± 0.007[7]	0.070 ± 0.001[8]	0.049 ± 0.002[8]**
Relative (mg/g)	3.12 ± 0.16[8]	3.32 ± 0.06[8]	3.37 ± 0.26[7]	3.05 ± 0.06[8]	2.17 ± 0.07[7]**
Thymus					
Absolute (g)	0.059 ± 0.002[8]	0.056 ± 0.002[8]	0.063 ± 0.004[7]	0.058 ± 0.002[8]	0.020 ± 0.001[8]**
Relative (mg/g)	2.53 ± 0.09[8]	2.41 ± 0.04[8]	2.71 ± 0.12[7]	2.52 ± 0.08[8]	0.90 ± 0.05[7]**

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LEGEND

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

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight.

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (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 t-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

CTL females from the vehicle control and treatment groups were removed on SD 44-45.

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

Immunophenotyping females from the vehicle control and treatment groups were removed on SD 42.

KLH females from the vehicle control and treatment groups were removed on SD 53.

NK females from the vehicle control and treatment groups were removed on SD 38-39.

SRBC females from the vehicle control and treatment groups were removed on SD 39.

CTL=Cytotoxic T Lymphocytes; KLH=Keyhole Limpet Hemocyanin; SRBC=Sheep Red Blood Cells; NK=Natural Killer

One Immunopath female in the 50 mg/kg CPS group did not have a terminal body weight recorded, so no relative organ weights could be calculated.

**** END OF REPORT ****