

# PA06: Organ Weights Summary

Study Number: I20045

Test Compound: Phenanthrene

Date: 03 Sep 2024

DTTID: 103-005-012-000-2

CAS Number: 85-01-8

Time: 3:16:39 PM

Study Type: Immune screening

DTXSID: DTXSID6024254

Species/Strain: Mouse/B6C3F1/N

Females: SRBC Cohort

	Treatment Groups							
	0 mg/kg	12.5 mg/kg	25 mg/kg	50 mg/kg	100 mg/kg	200 mg/kg	400 mg/kg	50 mg/kg CPS
Terminal Body Weight (g)	22.6 ± 0.7[8]	23.9 ± 0.4[6]	22.9 ± 1.0[5]	23.2 ± 1.0[8]	24.3 ± 0.9[5]	23.0 ± 0.7[6]	23.2 ± 0.3[7]	22.4 ± 1.0[8]
<b>Spleen</b>								
Absolute (g)	0.090 ± 0.004[8]	0.096 ± 0.002[6]	0.095 ± 0.005[5]	0.085 ± 0.003[8]	0.102 ± 0.005[5]	0.095 ± 0.008[6]	0.086 ± 0.005[7]	0.047 ± 0.003[8]**
Relative (mg/g)	4.02 ± 0.20[8]	4.01 ± 0.14[6]	4.20 ± 0.28[5]	3.71 ± 0.19[8]	4.18 ± 0.17[5]	4.15 ± 0.33[6]	3.72 ± 0.21[7]	2.11 ± 0.07[8]**
<b>Thymus</b>								
Absolute (g)	0.060 ± 0.002[8]	0.066 ± 0.004[6]	0.064 ± 0.003[5]	0.065 ± 0.004[8]	0.068 ± 0.004[5]	0.067 ± 0.005[6]	0.065 ± 0.004[7]	0.023 ± 0.001[8]**
Relative (mg/g)	2.68 ± 0.13[8]	2.77 ± 0.12[6]	2.79 ± 0.16[5]	2.81 ± 0.16[8]	2.82 ± 0.15[5]	2.93 ± 0.29[6]	2.81 ± 0.19[7]	1.01 ± 0.06[8]**

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	Treatment Groups							
	0 mg/kg	12.5 mg/kg	25 mg/kg	50 mg/kg	100 mg/kg	200 mg/kg	400 mg/kg	50 mg/kg CPS
Terminal Body Weight (g)	23.7 ± 1.0[7]	22.6 ± 0.7[7]	23.5 ± 0.6[6]	23.7 ± 0.8[5]	22.9 ± 0.9[5]	23.1 ± 0.7[6]	22.8 ± 0.7[8]	23.7 ± 0.6[8]
<b>Kidney with Adrenal, Right</b>								
Absolute (g)	0.15 ± 0.01[8]	0.14 ± 0.00[8]	0.14 ± 0.00[6]	0.16 ± 0.01[5]	0.15 ± 0.01[5]	0.15 ± 0.00[7]	0.15 ± 0.00[8]	0.16 ± 0.00[8]*
Relative (mg/g)	6.20 ± 0.08[7]	6.26 ± 0.10[7]	6.11 ± 0.16[6]	6.73 ± 0.27[5]	6.48 ± 0.23[5]	6.32 ± 0.11[6]	6.39 ± 0.15[8]	6.94 ± 0.11[8]**
<b>Liver</b>								
Absolute (g)	1.10 ± 0.06[8]**	1.01 ± 0.02[8]	1.11 ± 0.02[6]	1.22 ± 0.06[5]	1.19 ± 0.04[5]	1.38 ± 0.05[7]**	1.45 ± 0.05[8]**	1.20 ± 0.06[8]
Relative (mg/g)	46.41 ± 1.25[7]**	44.91 ± 0.85[7]	47.10 ± 0.92[6]	51.27 ± 1.53[5]*	52.38 ± 1.97[5]**	58.42 ± 1.58[6]**	63.71 ± 1.00[8]**	50.27 ± 1.44[8]
<b>Lung</b>								
Absolute (g)	0.28 ± 0.03[8]	0.29 ± 0.02[8]	0.31 ± 0.04[6]	0.29 ± 0.03[5]	0.24 ± 0.01[5]	0.27 ± 0.01[7]	0.26 ± 0.02[8]	0.29 ± 0.02[8]
Relative (mg/g)	10.64 ± 0.78[7]	12.36 ± 0.94[7]	13.05 ± 1.33[6]	12.10 ± 0.99[5]	10.62 ± 0.45[5]	11.62 ± 0.42[6]	11.49 ± 0.70[8]	12.19 ± 0.66[8]
<b>Ovary</b>								
Absolute (g)	0.0157 ± 0.0020[8]	0.0103 ± 0.0008[8]	0.0122 ± 0.0011[6]	0.0153 ± 0.0019[5]	0.0120 ± 0.0014[5]	0.0146 ± 0.0014[7]	0.0123 ± 0.0019[8]	0.0122 ± 0.0010[8]
Relative (mg/g)	0.64 ± 0.08[7]	0.47 ± 0.04[7]	0.52 ± 0.05[6]	0.65 ± 0.08[5]	0.53 ± 0.06[5]	0.65 ± 0.07[6]	0.54 ± 0.08[8]	0.52 ± 0.04[8]
<b>Spleen</b>								
Absolute (g)	0.069 ± 0.003[8]	0.063 ± 0.003[8]	0.069 ± 0.003[6]	0.076 ± 0.005[5]	0.065 ± 0.006[5]	0.070 ± 0.002[7]	0.063 ± 0.005[8]	0.051 ± 0.003[8]**
Relative (mg/g)	2.93 ± 0.07[7]	2.75 ± 0.07[7]	2.93 ± 0.13[6]	3.20 ± 0.18[5]	2.87 ± 0.25[5]	3.01 ± 0.11[6]	2.80 ± 0.23[8]	2.12 ± 0.09[8]**
<b>Thymus</b>								
Absolute (g)	0.060 ± 0.002[8]	0.059 ± 0.003[8]	0.065 ± 0.005[6]	0.061 ± 0.006[5]	0.061 ± 0.006[5]	0.061 ± 0.003[7]	0.056 ± 0.006[8]	0.020 ± 0.002[8]**
Relative (mg/g)	2.55 ± 0.09[7]	2.57 ± 0.12[7]	2.76 ± 0.20[6]	2.53 ± 0.20[5]	2.68 ± 0.29[5]	2.54 ± 0.09[6]	2.47 ± 0.23[8]	0.84 ± 0.07[8]**

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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

SRBC = Sheep Red Blood Cells

CPS = Cyclophosphamide

Females from the vehicle control and treatment groups were removed on SD 28.

\*\* END OF REPORT \*\*