

PA06: Organ Weights Summary

Study Number: I10353

Test Compound: Benzo(a)pyrene

Date: 03 Sep 2024

DTTID: 103-005-002-000-1

CAS Number: 50-32-8

Time: 1:04:05 PM

Study Type: Immune screening

DTXSID: DTXSID2020139

Species/Strain: Mouse/B6C3F1/N

Females: SRBC

		Treatment Groups								
		0 mg/kg	2 mg/kg	5 mg/kg	9 mg/kg	19 mg/kg	38 mg/kg	75 mg/kg	150 mg/kg	50 mg/kg CPS
Terminal Body Weight (g)		24.6 ± 0.4[8]**	25.2 ± 0.4[8]	25.0 ± 0.7[8]	24.1 ± 0.6[8]	24.8 ± 0.4[8]	24.3 ± 0.5[8]	23.1 ± 0.2[8]	23.7 ± 0.6[8]	25.6 ± 0.6[8]
Spleen										
Absolute (g)		0.101 ± 0.004[8]**	0.095 ± 0.006[8]	0.095 ± 0.004[8]	0.085 ± 0.004[8]**	0.083 ± 0.002[8]**	0.079 ± 0.005[8]**	0.070 ± 0.002[8]**	0.060 ± 0.002[8]**	0.052 ± 0.002[8]**
Relative (mg/g)		4.10 ± 0.18[8]**	3.77 ± 0.19[8]	3.78 ± 0.12[8]	3.52 ± 0.15[8]**	3.37 ± 0.10[8]**	3.27 ± 0.19[8]**	3.04 ± 0.11[8]**	2.53 ± 0.06[8]**	2.04 ± 0.09[8]**
Thymus										
Absolute (g)		0.057 ± 0.004[8]**	0.060 ± 0.005[8]	0.060 ± 0.003[8]	0.058 ± 0.002[8]	0.050 ± 0.004[8]	0.047 ± 0.003[8]*	0.047 ± 0.002[8]*	0.031 ± 0.002[8]**	0.026 ± 0.003[8]**
Relative (mg/g)		2.30 ± 0.14[8]**	2.37 ± 0.19[8]	2.40 ± 0.09[8]	2.40 ± 0.06[8]	2.01 ± 0.13[8]	1.94 ± 0.10[8]	2.02 ± 0.09[8]	1.32 ± 0.12[8]**	1.01 ± 0.13[8]**

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Females: Immunopath

	Treatment Groups								
	0 mg/kg	2 mg/kg	5 mg/kg	9 mg/kg	19 mg/kg	38 mg/kg	75 mg/kg	150 mg/kg	50 mg/kg CPS
Terminal Body Weight (g)	25.0 ± 0.9[8]**	24.7 ± 1.0[8]	24.5 ± 0.7[8]	25.0 ± 1.0[8]	24.1 ± 0.8[8]	23.9 ± 0.8[8]	23.0 ± 0.3[8]	22.5 ± 0.5[8]*	25.4 ± 1.0[8]
Kidney with Adrenal, Right									
Absolute (g)	0.16 ± 0.01[8]**	0.15 ± 0.01[8]	0.15 ± 0.00[8]	0.15 ± 0.00[8]	0.15 ± 0.01[8]	0.15 ± 0.00[8]	0.15 ± 0.00[8]	0.13 ± 0.00[8]**	0.16 ± 0.00[8]
Relative (mg/g)	6.22 ± 0.14[8]	6.09 ± 0.15[8]	6.11 ± 0.16[8]	6.20 ± 0.22[8]	6.18 ± 0.15[8]	6.37 ± 0.24[8]	6.29 ± 0.14[8]	5.76 ± 0.14[8]	6.47 ± 0.17[8]
Liver									
Absolute (g)	1.11 ± 0.05[8]**	1.06 ± 0.05[8]	1.10 ± 0.04[8]	1.14 ± 0.05[8]	1.20 ± 0.06[8]	1.20 ± 0.04[8]	1.13 ± 0.03[8]	1.40 ± 0.04[8]**	1.23 ± 0.03[8]
Relative (mg/g)	44.56 ± 0.84[8]**	42.78 ± 0.79[8]	45.12 ± 1.18[8]	45.53 ± 0.79[8]	49.49 ± 1.28[8]**	50.37 ± 1.27[8]**	48.85 ± 0.83[8]**	61.99 ± 0.78[8]**	48.50 ± 1.25[8]*
Lung									
Absolute (g)	0.28 ± 0.02[7]	0.27 ± 0.01[8]	0.26 ± 0.01[8]	0.27 ± 0.01[8]	0.27 ± 0.01[8]	0.30 ± 0.02[8]	0.30 ± 0.02[8]	0.25 ± 0.01[8]	0.29 ± 0.01[8]
Relative (mg/g)	11.10 ± 0.42[7]	10.97 ± 0.47[8]	10.54 ± 0.43[8]	10.87 ± 0.46[8]	11.25 ± 0.69[8]	12.37 ± 0.66[8]	13.07 ± 1.13[8]	11.08 ± 0.39[8]	11.68 ± 0.69[8]
Ovary									
Absolute (g)	0.0150 ± 0.0022[8]**	0.0141 ± 0.0015[8]	0.0143 ± 0.0015[8]	0.0119 ± 0.0011[8]	0.0155 ± 0.0015[8]	0.0140 ± 0.0011[8]	0.0116 ± 0.0014[8]	0.0078 ± 0.0008[8]**	0.0129 ± 0.0010[8]
Relative (mg/g)	0.59 ± 0.08[8]*	0.57 ± 0.06[8]	0.58 ± 0.05[8]	0.48 ± 0.04[8]	0.64 ± 0.06[8]	0.59 ± 0.05[8]	0.50 ± 0.06[8]	0.35 ± 0.03[8]*	0.52 ± 0.05[8]
Spleen									
Absolute (g)	0.068 ± 0.004[8]**	0.067 ± 0.003[8]	0.067 ± 0.004[8]	0.064 ± 0.003[8]	0.067 ± 0.002[8]	0.064 ± 0.002[8]	0.057 ± 0.003[8]*	0.053 ± 0.003[8]**	0.049 ± 0.002[8]**
Relative (mg/g)	2.73 ± 0.15[8]*	2.73 ± 0.13[8]	2.76 ± 0.17[8]	2.56 ± 0.11[8]	2.78 ± 0.05[8]	2.69 ± 0.09[8]	2.48 ± 0.11[8]	2.35 ± 0.10[8]	1.94 ± 0.08[8]**
Thymus									
Absolute (g)	0.057 ± 0.002[8]**	0.054 ± 0.004[8]	0.056 ± 0.002[8]	0.060 ± 0.003[8]	0.048 ± 0.003[8]*	0.041 ± 0.003[8]**	0.040 ± 0.002[8]**	0.024 ± 0.002[8]**	0.018 ± 0.001[7]**
Relative (mg/g)	2.29 ± 0.09[8]**	2.19 ± 0.13[8]	2.29 ± 0.09[8]	2.40 ± 0.12[8]	2.01 ± 0.15[8]	1.71 ± 0.12[8]**	1.71 ± 0.07[8]**	1.06 ± 0.10[8]**	0.74 ± 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

SRBC = Sheep Red Blood Cells

CPS = Cyclophosphamide

Females from the Immunopath and SRBC cohorts were removed on SD 28.

** END OF REPORT **