

M07: TDAR SRBC: Spleen AFC

Study Number: I20045

Test Compound: Phenanthrene

Date: 03 Sep 2024

DTTID: 103-005-012-000-2

CAS Number: 85-01-8

Time: 2:30:02 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
Spleen Weight (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]**
Spleen Cells (x10 ⁶)	92.81 ± 7.36[8]	81.50 ± 3.12[6]	92.64 ± 6.46[5]	96.98 ± 13.66[8]	102.36 ± 9.58[5]	81.40 ± 6.83[6]	74.40 ± 7.38[7]	19.37 ± 4.67[8]**
AFC/10 ⁶ Spleen Cells	1172.2 ± 125.2[7]**	1148.1 ± 131.5[6]	920.6 ± 148.1[5]	655.6 ± 65.3[8]*	756.6 ± 145.1[5]*	771.1 ± 142.5[6]*	318.3 ± 37.5[7]**	183.1 ± 111.5[8]**
AFC/Spleen (x10 ²)	1089.6 ± 141.0[7]**	933.0 ± 104.9[6]	836.1 ± 122.3[5]	599.6 ± 62.9[8]*	738.9 ± 107.7[5]*	659.3 ± 137.6[6]*	236.6 ± 38.1[7]**	21.4 ± 7.8[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 28.

** END OF REPORT **