

M07: TDAR SRBC: Spleen AFC

Study Number: I10577

Test Compound: Pyrene

Date: 10 Oct 2024

DTTID: 103-005-013-000-3

CAS Number: 129-00-0

Time: 9:36:35 AM

Study Type: Immune screening

DTXSID: DTXSID3024289

Species/Strain: Mouse/B6C3F1/N

Females: SRBC

	Treatment Groups								
	0 mg/kg	3.1 mg/kg	6.3 mg/kg	12.5 mg/kg	25 mg/kg	50 mg/kg	100 mg/kg	200 mg/kg	10 mg/kg B(a)P
Spleen Weight (g)	0.091 ± 0.004[8]*	0.079 ± 0.005[8]	0.085 ± 0.004[8]	0.093 ± 0.004[8]	0.092 ± 0.005[7]	0.099 ± 0.004[8]	0.089 ± 0.005[8]	0.095 ± 0.004[8]	0.080 ± 0.007[8]
Spleen Cells (x10 ⁶)	62.06 ± 3.10[8]	56.63 ± 5.23[8]	64.54 ± 4.61[8]	64.58 ± 7.06[8]	62.31 ± 3.19[7]	70.50 ± 5.17[8]	61.28 ± 4.84[8]	74.93 ± 6.69[8]	67.88 ± 10.01[8]
AFC/10 ⁶ Spleen Cells	686.0 ± 53.6[8]	661.2 ± 67.8[8]	739.1 ± 70.4[8]	800.9 ± 106.9[8]	665.1 ± 163.3[7]	654.4 ± 94.5[8]	941.5 ± 79.4[8]	702.2 ± 89.7[8]	397.5 ± 93.3[8]*
AFC/Spleen (x10 ²)	431.4 ± 47.2[8]	387.0 ± 64.1[8]	478.1 ± 55.0[8]	519.2 ± 74.7[8]	421.1 ± 106.4[7]	476.4 ± 84.8[8]	559.1 ± 44.3[8]	507.9 ± 57.7[8]	236.3 ± 39.0[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 (10 mg/kg B(a)P) was excluded from the trend test.

Statistical analysis for the positive control group (10 mg/kg B(a)P) 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

B(a)P = Benzo(a)pyrene

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

** END OF REPORT **