

# M04: Hematology

Study Number: I10577

Test Compound: Pyrene

Date: 03 Sep 2024

DTTID: 103-005-013-000-3

CAS Number: 129-00-0

Time: 3:34:50 PM

Study Type: Immune screening

DTXSID: DTXSID3024289

Species/Strain: Mouse/B6C3F1/N

Females: Immunopath

	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
<b>Absolute counts</b>									
Erythrocyte (x10 <sup>6</sup> )	10.230 ± 0.228[7]	10.225 ± 0.196[8]	10.389 ± 0.089[8]	10.405 ± 0.092[8]	10.193 ± 0.108[8]	10.281 ± 0.091[8]	10.445 ± 0.131[8]	10.336 ± 0.137[7]	10.406 ± 0.061[8]
Hemoglobin (g/dL)	15.61 ± 0.18[7]*	15.38 ± 0.11[8]	15.59 ± 0.09[8]	15.51 ± 0.14[8]	15.25 ± 0.15[8]	15.31 ± 0.14[8]	15.28 ± 0.17[8]	15.24 ± 0.16[7]	15.64 ± 0.11[8]
Hematocrit (%)	52.36 ± 1.28[7]	52.30 ± 1.08[8]	53.39 ± 0.66[8]	53.06 ± 0.56[8]	52.33 ± 0.67[8]	52.41 ± 0.51[8]	52.70 ± 0.73[8]	52.21 ± 0.70[7]	53.78 ± 0.34[8]
MCV (fL)	51.16 ± 0.37[7]*	51.16 ± 0.26[8]	51.39 ± 0.47[8]	51.01 ± 0.32[8]	51.34 ± 0.24[8]	50.99 ± 0.21[8]	50.46 ± 0.22[8]	50.54 ± 0.32[7]	51.68 ± 0.17[8]
MCH (pg)	15.30 ± 0.26[7]**	15.10 ± 0.23[8]	15.01 ± 0.09[8]	14.89 ± 0.07[8]	14.95 ± 0.07[8]	14.89 ± 0.06[8]	14.60 ± 0.07[8]**	14.77 ± 0.10[7]**	14.99 ± 0.06[8]
MCHC (g/dL)	29.90 ± 0.62[7]	29.50 ± 0.51[8]	29.25 ± 0.28[8]	29.21 ± 0.15[8]	29.14 ± 0.18[8]	29.19 ± 0.12[8]	28.95 ± 0.19[8]	29.20 ± 0.14[7]	29.05 ± 0.09[8]
Platelets (x10 <sup>3</sup> )	872.9 ± 34.3[7]	833.1 ± 48.2[8]	885.0 ± 59.3[8]	791.9 ± 82.2[8]	882.8 ± 49.8[8]	831.0 ± 100.7[8]	812.6 ± 83.8[8]	833.6 ± 71.7[7]	782.0 ± 115.9[8]
Leukocyte (x10 <sup>3</sup> )	6.23 ± 0.90[7]	6.05 ± 0.86[8]	6.34 ± 0.87[8]	5.72 ± 0.54[8]	6.11 ± 0.83[8]	6.68 ± 0.62[8]	5.23 ± 0.49[8]	6.80 ± 0.88[7]	6.74 ± 0.35[8]
Reticulocytes (x10 <sup>3</sup> )	259.64 ± 13.97[7]	293.58 ± 11.83[8]	291.46 ± 12.97[8]	287.39 ± 11.70[8]	296.08 ± 15.04[8]	283.46 ± 15.90[8]	270.60 ± 14.04[8]	294.66 ± 17.74[7]	284.58 ± 20.14[8]
<b>Relative counts</b>									
Percent Reticulocytes (%)	2.537 ± 0.121[7]	2.880 ± 0.132[8]	2.808 ± 0.136[8]	2.761 ± 0.112[8]	2.909 ± 0.156[8]	2.758 ± 0.160[8]	2.586 ± 0.116[8]	2.844 ± 0.146[7]	2.740 ± 0.206[8]

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### LEGEND

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

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests. The positive control group (10 mg/kg B(a)P) was excluded from trend test.

Statistical analysis for the positive control group (10 mg/kg B(a)P) compared to the vehicle control group was performed using the Wilcoxon rank sum 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

MCV = Mean Corpuscular Volume; MCH = Mean Corpuscular Hemoglobin, MCHC = Mean Cell Hemoglobin Concentration

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 \*\*