

M03: Peripheral Blood Leukocyte Cell Differential

Study Number: I10577

Test Compound: Pyrene

Date: 03 Sep 2024

DTTID: 103-005-013-000-3

CAS Number: 129-00-0

Time: 3:33:26 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
Leukocytes (x10 ³ /μL)	6.227 ± 0.904[7]	6.051 ± 0.859[8]	6.344 ± 0.865[8]	5.718 ± 0.543[8]	6.111 ± 0.831[8]	6.676 ± 0.618[8]	5.229 ± 0.492[8]	6.803 ± 0.880[7]	6.741 ± 0.347[8]
Absolute counts									
Lymphocytes (x10 ³ /μL)	4.980 ± 0.806[7]	4.911 ± 0.717[8]	5.086 ± 0.699[8]	4.518 ± 0.442[8]	4.918 ± 0.620[8]	5.368 ± 0.504[8]	4.079 ± 0.370[8]	5.364 ± 0.604[7]	5.380 ± 0.314[8]
Neutrophils (x10 ³ /μL)	0.753 ± 0.066[7]	0.658 ± 0.096[8]	0.714 ± 0.085[8]	0.601 ± 0.043[8]	0.755 ± 0.184[8]	0.718 ± 0.111[8]	0.571 ± 0.075[8]	0.791 ± 0.158[7]	0.736 ± 0.070[8]
Monocytes (x10 ³ /μL)	0.057 ± 0.006[7]	0.069 ± 0.012[8]	0.064 ± 0.009[8]	0.073 ± 0.021[8]	0.061 ± 0.010[8]	0.066 ± 0.008[8]	0.054 ± 0.006[8]	0.054 ± 0.013[7]	0.066 ± 0.009[8]
Eosinophils (x10 ³ /μL)	0.311 ± 0.087[7]	0.323 ± 0.085[8]	0.396 ± 0.116[8]	0.356 ± 0.120[8]	0.281 ± 0.070[8]	0.423 ± 0.119[8]	0.449 ± 0.128[8]	0.481 ± 0.170[7]	0.429 ± 0.120[8]
Basophils (x10 ³ /μL)	0.037 ± 0.010[7]	0.030 ± 0.007[8]	0.039 ± 0.007[8]	0.029 ± 0.005[8]	0.039 ± 0.007[8]	0.039 ± 0.007[8]	0.024 ± 0.003[8]	0.030 ± 0.006[7]	0.038 ± 0.004[8]
Large Unstained Cells (x10 ³ /μL)	0.091 ± 0.029[7]	0.061 ± 0.016[8]	0.050 ± 0.008[8]	0.139 ± 0.089[8]	0.054 ± 0.013[8]	0.066 ± 0.015[8]	0.051 ± 0.009[8]	0.074 ± 0.021[7]	0.093 ± 0.016[8]
Relative counts									
Percent Lymphocytes (%)	78.37 ± 2.02[7]	81.00 ± 1.51[8]	80.14 ± 1.67[8]	79.09 ± 2.41[8]	81.23 ± 1.42[8]	80.45 ± 1.67[8]	78.41 ± 2.41[8]	80.59 ± 3.05[7]	79.66 ± 2.08[8]
Percent Neutrophils (%)	13.24 ± 1.56[7]	10.85 ± 0.57[8]	11.45 ± 0.52[8]	11.03 ± 1.05[8]	11.68 ± 1.37[8]	10.74 ± 1.09[8]	10.84 ± 0.53[8]	11.06 ± 1.13[7]	10.96 ± 0.93[8]
Percent Monocytes (%)	0.96 ± 0.08[7]	1.18 ± 0.13[8]	1.03 ± 0.12[8]	1.23 ± 0.23[8]	1.06 ± 0.08[8]	0.98 ± 0.08[8]	1.08 ± 0.13[8]	0.83 ± 0.22[7]	1.00 ± 0.12[8]
Percent Eosinophils (%)	5.56 ± 1.50[7]	5.59 ± 1.58[8]	6.09 ± 1.57[8]	6.15 ± 2.09[8]	4.61 ± 1.09[8]	6.34 ± 1.55[8]	8.24 ± 2.32[8]	6.10 ± 2.14[7]	6.46 ± 1.78[8]
Percent Basophils (%)	0.53 ± 0.08[7]	0.49 ± 0.07[8]	0.56 ± 0.05[8]	0.53 ± 0.05[8]	0.61 ± 0.08[8]	0.56 ± 0.07[8]	0.48 ± 0.04[8]	0.41 ± 0.07[7]	0.59 ± 0.04[8]
Percent Large Unstained Cells (%)	1.33 ± 0.36[7]	0.91 ± 0.12[8]	0.78 ± 0.05[8]	2.03 ± 1.14[8]	0.84 ± 0.08[8]	0.94 ± 0.17[8]	0.98 ± 0.13[8]	1.01 ± 0.22[7]	1.34 ± 0.18[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

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 **