

Basic haematological values and Lysozyme activity in captive Short-Tailed Python (*Python curtus* Schlegel) in Chiang Mai Province

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**Abstract** Hematologic values and lysozyme activity in serum of captive short-tailed python were investigated. Ten short-tailed python, both male and female of various sizes from Chiang Mai Province were randomly selected for blood collections. Blood was collected from ventral tail vein for further using standard hematologic manual procedures. The results of hematologic studies are as the following: Packed cell volume (PCV)  $23.1 \pm 5.04\%$  Hemoglobin concentration (Hb)  $6.84 \pm 1.85$  g/dl, Red blood cell count (REC)  $1.12 \pm 0.62 \times 10^6$ /mL, White blood cell count (WBC)  $8.42 \pm 2.39 \times 10^3$ /ml, Differential white blood cells count are: Heterophil  $22.8 \pm 8.02\%$ , Lymphocyte  $67.5 \pm 6.57\%$ , Monocyte  $6.6 \pm 2.87\%$ , Eosinophil  $2.8 \pm 1.81\%$ , Basophil  $0.1 \pm 0.3\%$ , Mean corpuscular volume (MCV)  $235.13 \pm 67.58$  fl, Mean corpuscular hemoglobin, (MCH)  $68.09 \pm 17.82$  pg and Mean corpuscular hemoglobin concentration (MCHC)  $29.32 \pm 2.72$  g/dl. The activity of serum lysozyme is  $36.05 \pm 33.35$  unit/ml. Our results are in the same range as the reference values for pythons and may be used as a basic reference for Short-tailed pythons.

**Keyword:** Short-Tailed Python, Hematologic Values, Lysozyme Activity

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