ABSTRACT

NOVRI WANDI BAHAR. The Effects of the Administration of *Sauropus androgynus* (L) *Merr* Leaf Extract and Fraction on the Hematological Views in Lactating Rats. Under supervision of AGIK SUPRAYOGI and ANDRIYANTO.

The separation of the active compound *Sauropus androgynus* leaf (SA leaf) based on their solubility of organic solvents (ethanol, hexan, ethyl acetate, and water). This research was conducted to elucidate the effects of the administration of SA leaf extract and fraction on the hematological views in lactating rats. The extract and fraction was mixed in the pelleted feeds by ratio of 0.87%, 4.53%, 0.45%, and 3.22% for hexan fraction (FH), extracts of ethanol (E-Eto), ethyl acetate fraction (F-EtOAc), and water fraction (F-H2O) respectively. Fifteen lactating rats were divided into 5 groups, such as control (K), FH, E-Eto, F-EtOAc, and F-H2O. The administration of SA leaf extract and fraction to each groups was conducted on the first pregnancy up to the 10 days lactation. After 10 days lactation period the measurement of the total erythrocytes and leukocytes, hemoglobin (Hb), hematocrit values (PCV), and the differential leukocytes was executed. The research revealed that the SA leaf extract and fraction administration showed no significant influence for all hematological parameters. But there was an indication the decreasing of the total leukocytes on F-EtOAc administration and also Hb values on F-EtOAc and F-H administration. On the other hand, the F-H and E-Eto administration showed the increasing of the percentage of lymphocytes in leukocytes. The changes of hematological views, might be caused by the roles of active compounds in the extract and fraction of SA leaf.

Keywords: Lactation, *Sauropus androgynus*, Extraction, Fractionation, Hematology.