

THE EFFECT OF LEAF ETHANOL EXTRACTS OF BUAS-BUAS(*Premna pubescens* Blume) ON THE NUMBER OF LEUKOCYTES AND SPLEEN IN WHITE RATS (*Rattus norvegicus* L.)

Josri Sinaga (NIM 409220023)

ABSTRACT

This study aimed to determine the effect of leaf extracts of Buas-Buas on the number of leukocytes and spleen in mice. This study was conducted in May and June 2013 in the Laboratory of the Faculty of Medicine Polyclinic USU. The sample used in this study were 24 white rats. This research is an experimental study with a completely randomized design (RAL) with non-factorial treatment A as a control group given distilled water, group B was given the ethanol extract of leaves of wild-wild without SRBC, group C ethanol extract of leaves of wild-wild and SRBC and group D only given SRBC. Giving SRBC performed on day 8th and day 15th. This study by using a tool ABX Micros 60. The parameters measured were the number of leukocytes, spleen weight, spleen diameter and body weight of rats. Furthermore, the data obtained were tabulated and analyzed using ANOVA one lane and followed by BNT test. The results showed that the ethanol extract of leaves of buas-buas have significant effect (α ; 0,05) to the lymphocyte levels, no significant effect to the monocytes, levels and no significant effect to the granulocytes for white rats. no significant effect to the weight spleen levels, and no significant effect to the diameter spleen and no significant effect to weight for white rats.

Keywords: *Premna pubescens*, leukocytes, ABX Micros 60