

**HEME POLYMERITATION INHIBITION ACTIVITY OF ETHANOL EXTRACT OF MANURAN
(*Coptosapelta tomentosa* Valeton Ex K.Heyne) LEAF FROM KOTABARU SOUTH
KALIMANTAN**

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ABSTRACT

The use of natural materials in the treatment is usually base empirical experiences from generation to generation based on information from an cestors. A study is necessary to find out and explain scientifically the activity of plant as an antimalaria drug. The purpose of this study was to determine the value of IC₅₀ on the hem polymeritation inhibition activity assay of ethanol extract of *C.tomentosa* leaf. The inhibitory activity of heme polymerization *in vitro* did by Basillico modified method. The result of probit test of inhibition activity of hem polymerization of ethanol extract of *C. tomentosa* leaves has IC₅₀ value of 1.179 ± 0.07 mg / mL and chloroquine diphosphate is 1.682 ± 0.03 mg / mL. T-test independent sample showed that there was no significant difference between IC₅₀ extract value of ethanol leaf *C. tomentosa* with chloroquine diphosphate. Leaf ethanol extract *C. tomentosa* has inhibitory activity of hem polymerization.

Key words: Heme Polymerization, *Coptosapelta tomentosa* Valeton ex K. Heyne, Manuran