ABSTRACT

In Vitro Antimalarial Activity of Some Extract from Sauropus androgynus (L.) Merr Leaves Against Plasmodium falciparum

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The aimed of this study was to determinate antimalarial activity of n-hexane extract, chloroform extract, and 96% ethanolic extract of Katuk (Sauropus androgynus (L.) Merr) leaves. In vitro test of the n-hexane, chloroform, and 96% ethanolic extract performed using 3D7 strain of Plasmodium falciparum which has been synchronized and incubated for 48 hours. The concentration of the test solution of n-hexane, chloroform, and 96% ethanolic extract were used at 100 ug/ml, 10 ug/ml, 1 ug/ml, 0.1 ug/ml, 0.01 ug/ml. The results showed that the 96% ethanolic extract of Sauropus androgynus (L.) Merr leaves have most active antimalarial activity with IC₅₀ value of 1,917 ug/ml, and chloroform extract showed active antimalarial activity with IC₅₀ value of 6,497 ug/ml, while n-hexane extract showed inactive antimalarial activity with IC₅₀ > 100 ug / ml.

Key words: Sauropus androgynus (L.) Merr, Plasmodium falciparum 3D7, antimalarial activity, in vitro