

## ABSTRACT

**Antimalaria Activity of Ethanol Extract of *Artocarpus altilis* (Park.) Fosberg (Sukun) Leaves and Stem Bark against *Plasmodium berghei* in vivo**

*In vivo* antimalarial activity study of ethanol 80% extract of *Artocarpus altilis* (Park.) Fosberg leaves and stem bark or called Sukun as a local name has been done. The antimalarial study used Peter's test method (*The 4-Day suppressive test of blood schizontocida action*) in male mice. The plant extracts were suspended with 0.5% CMCNa. Extracts were administered daily from initial day after infection for four days by oral route. Blood was taken for seven days from tail and then stained with Giemsa, and parasitised red cells were counted.

The research revealed that ethanol 80% extract of *Artocarpus altilis* (Park.) Fosberg leaves and stem bark at concentration 100 ; 10; 1 and 0.1 mg/kg body weight respectively inhibited 82,26%; 36,72%; 51,54%; 63,18% of *Plasmodium berghei* growth for leaves extract and 73,53%; 67,26%; 46,64%; 31,28% of *P. berghei* growth for stem bark extract.

ED<sub>50</sub> of ethanol extract from leaves and stem bark of *Artocarpus altilis* (Park.) Fosberg were 0,824 mg/kg body weight and 1,488 mg/kg body weight respectively. The ethanol extract of *Artocarpus altilis* Parkinson Fosberg leaves and stem bark have activity antimalarial at all of doses where .

**Key words :** *Artocarpus altilis* (Park.) Fosberg, *Plasmodium berghei*, antimalarial activity, leaves, stem bark, ethanol 80% extract