

## ABSTRACT

### **ACTIVITIES OF RED GUAVA LEAF EXTRACT (*Psidium guajava* L.) IN INCREASING THE AMOUNT OF PLATELET IN BLOOD AND DECREASING MICE VASCULAR PERMEABILITY.**

Dengue hemorrhagic fever (DHF) is characterized by two main clinical manifestation, is a decrease amount of blood platelet (thrombocytopenia) and increase permeability vascular which causes leakage of plasma and the resulting shock.

The activities of those extracts on two main clinical manifestation of dengue virus infection were determined using acetic acid induced vascular permeability assay and indirect method of platelet count.

The result showed that ethanol that the ethanol 96% extract could decrease to 25,58%, and ethanol 70% extract could decrease to 21,26%, the ethanol 50% extract could decrease to 18,36% and the last, water extract could decrease the to 14,39% the increment of vascular permeability. The water extract is the most significant on increasing platelet amount in mice blood followed by ethanol extract of 50%, ethanol 70% and 96% ethanol.

Keyword : Extract of *Psidium guajava* L, Dengue Haemorrhagic Fever, platelet, Vascular permeability