

## ABSTRACT

Purnomo, Favi Rani. 2014. ***The Potency Test of Vetiver Ethanol Extract As A Insecticides Aedes sp. With Spray Method.*** Final Assessment, Faculty of Medicine, Brawijaya University. Supervisors : (1) dr. Sudjari ,DTM&H., M.Si.,Sp.Park. (2) Dr.dr. Endang Sriwahyuni, MS.

Mosquito *Aedes sp.* is the biologic vector for *Dengue Hemmorrhagic Fever* and *Malaria*.<sup>1</sup> Mosquito eradication has been performed by natural and chemical. However, there is side effect as it creates resistancy of the mosquito to the chemical substance itself. *Vetiver* has some active ingredients such as *essential oil* and *flavonoid*.<sup>2</sup> This study was carried out to examine the potential of *vetiver etanol* extract as *Aedes sp* mosquito insecticide. This study is true experimental design with the *Post- Test Only Control Group Design*. The results of this study showed that the average affectivity *Malathion* as insecticide during experiment was 100%, while the *vetiver ethanol extract* with some concentration 20%, 30%, and 40% as insecticide were 86%, 92% dan 100%. Data analyzed with *tuckey* (HSD) test suggested that there were significant difference between concentration 20%, 30% with *malathion*, and no significant difference between concentration 40% with *malathion*. The conclusion was *vetiver ethanol* extract has potential as an insecticide. Further experiment was suggested to find the side effects of *vetiver ethanol* extract.

**Key words :** *Vetiver ethanol* extract, *insecticides*, Mosquito *Aedes sp.*