

ABSTRAC

Putri, Claudia Belgisa. 2013. ***The Potency Test of Bay Leaf N-Hexane Extract As A Insecticides Culex sp.*** Final Assessment, Faculty of Medicine, Brawijaya University. Supervisors : (1) dr. Sudjari ,DTM&H., M.Si.,Sp.Park. (2) dr. Arliek Rio Julia MS.

Mosquito *Culex sp.* is the biologic vector for *filariasis* dan *encephalitis*. Mosquito eradication has been performed by natural and chemical. However, there was side effect as well as creating resistance of the mosquito to the chemical substance itself. Bay leaf has some active ingredients such as *alkaloid*. This study was carried out to examine the potential of bay leaf *n-hexane* extract as *Culex sp* mosquito insecticide. This study was true experimental design with the *Post- Test Only Control Group Design*. The results of this study showed that the average affectivities of Malathion as insecticide during experiment was 100%, while the bay leaf *n-hexane extract* with some concentration 5%, 12,5%, dan 20% as insecticide were 81,82%, 89,61% dan 100%. Data analyzed with correlations and regrestions test suggested that there were significant difference between concentration 5%, 12,5% with Malathion, and no significant difference between concentration 20% dengan Malathion. The conclusion was Bay leaf *n-hexane* extract had insecticide. Further experiment was suggested to find the side effects of bay leaf *n-hexane* extract.

Key words : Bay leaf *n-hexane* extract, *insecticides*, Mosquito *Culex sp.*

