ABSTRACT

EFFECTIVENESS OF LEGUNDI (Vitex trifolia L.) LEAVES EXTRACT AS Aedes Aegypti OVICIDE

By

FAJAR AL HABIBI

The World Health Organization (WHO) notes the country Indonesia with the highest dengue hemorrhagic fever disease in Southeast Asia. Ministry of Health of the Republic of Indonesia reports 595 people was died because of this disease. Legundi leaves is known contains alkaloid, terpenoid and flavonoid that can inhibite hatchability of Aedes aegypti’s eggs. This research objective was to know if legundi leaves extract effective as Aedes aegypti ovicide. This experimental studies which used completely randomized design was performed from November untill December 2012 in Laboratory of Zoology, Department of Biology, Faculty of Mathematics and Natural Sciences, University of Lampung. Concentration of the extract used was 0%, 0.1%, 0.3%, 0.5%, 0.7% and 1% with 4 repetitions for each treatment. Furthermore, was laid 20 eggs in each treatment and repetition, so was getten the total number of samples of 480 eggs. Then, was observed number of eggs that did not hatch every 6 hours for three days. At the end of the study, hypothesis test of one-way ANOVA resulted p-value <0.001. In the post hoc Bonferroni analysis was known effective concentration than controls (0%) was 1%. The results showed that the legundi leaves extract is effective as ovisida Aedes aegypti.

Key words: Aedes aegypti, ovicide, Vitex trifolia L.