

## ABSTRACT

### THE EFFICACY OF MANY EXTRACT CONCETRATION LEVEL OF NEEM LEAF (*Azadirachta indica* A. JUSS) ON *Brachyplatys* sp. (HEMIPTERA : PLATASPIDIDAE)

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This research aims to find out neem leaf extract effectivity of Ladybugs *Brachyplatys* sp. mortality on Turi leaf (*Sesbania grandiflora* syn. *Aeschynomene grandiflora*). Hypothesis proposed in this study is the difference in the concentration of neem leaf extract was applied to the ladybugs *Brachyplatys* sp. mortality. This research was conducted at the Laboratory of Arthropod Pest of Agriculture Faculty, Lampung University (UNILA), Bandar Lampung started from February 2010 to May 2010. Experiments using a randomized block design (RAK) and five treatment were 0 gr/litre, 60 gr/litre, 80 gr/litre, 100 gr/litre and 120 gr/litre, and for each treatment was repeated three times. The result showed that application of neem leaf extract significantly affect to the mortality of Ladybugs *Brachyplatys* sp. Ladybugs *Brachyplatys* sp. mortality on treatment that apply 100 gr/litre of neem leaf extract was equal 93.99 %, significantly higher than the mortality on treatment that apply 80 gr/litre and 60 gr/litre of neem leaf extract was equal 75.61 % and 67.28 %, but not significantly different with the mortality on treatment that apply 120 gr/litre of neem leaf extract that was equal 97.92 %. Value of  $LT_{50}$  in the treatment that apply 100gr/litre of neem leaf extract was equal 101.30 jsa.