Potential of Vegetable Insecticides of Soursop Leaves and Garlic in Controlling Grayak Caterpillars (*Spodoptera litura* F)

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ABSTRACT

The purpose of this study was to determine the potential of vegetable insecticides of soursop leaves and garlic in controlling armyworms *(Spodoptera litura).* This research was conducted using a non-factorial randomized block design (RBD) with 5 levels of treatment, namely, control, 20 gr soursop leaves/l water, 30 gr garlic/l water, 20 gr soursop leaves/l water + 30 g garlic/l water, and 1.5 ml of synthetic insecticide. This research was repeated 5 times. The experimental data were analyzed using ANOVA and the 5% level test, if the results showed a significant effect, then the BNJ further test was carried out at the 5% level, while to determine LT50 using probit analysis. The results showed that the application of vegetable insecticides of soursop leaves and garlic was effective in controlling armyworms (Spodoptera litura F.), with the fastest time of death being a combination of both, with a LT_{50} value of 146 hours.

Keywords: *Efficacy, soursop and garlic leaf insecticides, armyworms*