

**EFFICACY TEST OF EMPTY COCONUT BUNCH BIOPESTICIDE
(*Elaeis guineensis* Jacq.) WITH DIFFERENT CONCENTRATIONS
AND DIFFERENT APPLICATION METHODS ON
MORTALITY OF SUGARCANE URET PEST
(*Lepidiota stigma* F.)**

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ABSTRACT

*Sugarcane uret (*Lepidiota stigma* F.) is one of the pests that damage the roots of sugarcane plants in the larval phase. There are several ways to control these pests, one of which is by using palm empty fruit bunch liquid smoke biopesticide. The purpose of this study was to determine the efficacy of palm empty fruit bunch liquid smoke biopesticide, to determine the effect of various application methods and to determine the interaction effect of palm empty fruit bunch liquid smoke biopesticide and various application methods on sugarcane uret pests. The study used a Factorial Randomized Block Design (FRBD), consisting of 8 treatments with 3 replications, namely control + feeding method, 1% palm empty fruit bunch liquid smoke biopesticide + feeding method, 1.5% palm empty fruit bunch liquid smoke biopesticide + feeding method, biopesticide palm empty fruit bunch liquid smoke 2% + feed method, control + contact method, biopesticide palm empty fruit bunch liquid smoke 1% + contact method, biopesticide palm empty fruit bunch liquid smoke 1.5% + contact method, biopesticide palm empty fruit bunch liquid smoke 2% + contact method. The parameters used were mortality, LT_{50} and physical changes. The results showed that palm empty fruit bunch liquid smoke biopesticide was effective against sugarcane uret pests with the fastest LT_{50} value in the treatment of 2% palm empty fruit bunch liquid smoke biopesticide + feeding method (92 hours). The application method of palm empty fruit bunch liquid smoke biopesticide and the interaction between palm empty fruit bunch liquid smoke biopesticide and the application method were not significantly different.*

*Keywords : Biopesticides, *L.stigma* F, Oil Palm Empty Bunches*