

**EFFECTIVENESS OF VARIOUS CONCENTRATION OF  
MICROENCAPSULATED *Jatropha curcas* SEEDS EXTRACT AS A  
BOTANICAL PESTICIDE AGAINST GOLDEN SNAIL (*Pomacea  
canaliculata* L.**

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**ABSTRAK**

This study was conducted to identify the effect of microencapsulation application of *J. Curcas* seeds botanical pesticide in affecting on mortality and feeding capacity of *P. canaliculata* L. and determine the concentration of microencapsulation of *J. Curcas* seeds extract that can kill 95% of the total population of *P. canaliculata* L. This research is conducted at the Plant Protection Laboratory Of UPN “Veteran” Yogyakarta from September to November. The research used a completely randomized design (CRD) method with six treatments and four replicates. The treatments include, K0: Negative Control, K1: Positive Control (Niclocamide), K2: *J. Curcas* extract 15 g/L, K3: Microencapsulated *J. Curcas* 5 g/L, K4: Microencapsulated *J. Curcas* 10 g/L, K5: Microencapsulated *J. Curcas* 15 g/L. The parameters of this study include pest mortality, Lethal Concentration 95%, feeding capacity, lethal time 95%, and effectivity. The data obtained were analyzed for diversity, then further tests were carried out with orthogonal contrast test at the 5% level, LC values were analyzed using probit analysis. The K5 (microencapsulated *J. Curcas* 15 g/L) treatment was the treatment with the highest mortality compare to microencapsulated *J. curcas* all concentration with the ability inhibit feeding capacity. LC95 value of 81,395 g/L and LT95 value of 4,28 day.

**Keyword:** *Botanical Pesticide, J. curcas, Gold snail, Microencapsulation*