

**THE EFFECTS OF *Centella asiatica* and *Zingiber officinale*
TOWARDS *Achatina fulica***

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ABSTRACT

The Effects of *Centella asiatica* and *Zingiber officinale* towards *Achatina fulica*

As concern with the undesirable impact of synthetic pesticide on environment and human health, this study was conduct in order to determine the repellent activity of two plants extract (*Centella asiatica* and *Zingiber officinale*) and their combination towards the *Achatina fulica*. The land snails were found surrounding UiTM Kuala Pilah and Kampung Beting, Kuala Pilah. *C. asiatica* and *Z. officinale* were extracted by maceration technique using the 95% ethanol. The solvents were dried and concentrated by using the rotary evaporator machine. The crude extract of two plants *C. asiatica* and *Z. officinale* were dissolved with distilled water by three different concentrations such as 10%, 20% and 50%. The different concentration used to examine the efficiency of two plants extract and their combination towards the land snails. The result on the repellent activity towards Giant African land snails subjected to combination of plant extracts and the concentration indicated that have significant different of repelling the Giant African land snails. Based on the result, the combination of plant extracts (*C. asiatica* and *Z. officinale*) at 20% concentration showed the most efficient for repellency activities towards the *A. fulica*. Selective combination of synergistically acting molluscicidal and repellent compounds from variety plant extracts may be an effective ways because the characteristics of the plant itself gave the effect on the repellent activity towards the land snails. Therefore, this study demonstrated that the selective combinations of molluscicidal organic plants extracts are effective for controlling the *A. fulica*.