

**THE EFFECTIVITY OF BINTARO (*Cerbera manghas*) LEAVES
ETHANOL EXTRACT TO LARVA *Rhipicephalus sanguineus*
MORTALITY RATE
*IN VITRO***

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ABSTRACT

The aim of this experiment is to prove that Bintaro leaves can increase mortality rate larva *R. sanguineus* within 4 hours. This experiment used 250 larva, divided into five treatment groups 0%, 5%, 8%, 12.5%, 20%. Each treatment contained of ten larvae and replicated five times. The result of this experiment showed that Bintaro leaves extract in 0% concentration gave mortality rate 0%, in 5% concentration gave mortality rate 52%, in 8% concentration gave mortality rate 66%, in 12.5% concentration gave mortality rate 68%. Mortality rate reached 100% in concentration 20% extract. ANOVA test was used to count mortality rate. The result of statistical analysis showed that there was significant difference ($p < 0.05$) between treatment and mortality rate of larva. From the statistical analysis, we can conclude that the concentration of bintaro leaves extract has effect toward mortality rate of larva.

Key Words: Bioinsecticide, Bintaro, larva, *Rhipicephalus sanguineus*