ANTHELMINTIC ACTIVITY OF BITTER MELON FRUIT (*Momordica charantia* L.) ETHANOL EXTRACT AGAINST *Fasciola gigantica IN VITRO*

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ABSTRACT

The aims of this study was to know the Anthelmintic Activity of Ethanol Extract of Bitter Melon Fruit (*Momordica charantia L.*) Against *F. gigantica* worm *in vitro*. Method that used in the research was completely randomized design. There were six treatments and each treatment was done in four replications. This research used ten *F. gigantica* in each treatment for all replication. The observation and recording of dead *F. gigantica* was done at 2, 4, 6, 8, 10 hours. *Fasciola gigantica* were declared dead if there was no movement when disturbed by anatomy tweezers and when dipped in slightly warm water (50℃). The obtained data was analyzed using ANOVA factorial and continued with Duncan Multiple Range Test. The result of this research showed the most effective concentration of *Momordica charantia L.* Ethanol extract was 10%, the higher concentration of the extract, the higher property of its anthelmintic. Probit analysis was used to calculate the LC_{50} and LC_{90}. The results were LC_{50} of *Momordica charantia L.* extract was 5.22% at 2 hours, 2.6% at 4 hours, 1.52% at 6 hours, 1.06% at 8 hours, 0.64% at 10 hours and the LC_{90} was 1,71% at 10 hours.

Keywords **:** Bitter Melon Fruit, Anthelmintic, *F. gigantica*, *In Vitro*