ANTHELMINTIC ACTIVITY OF SPONGE GOURD FRUIT

(Luffa acutangula) METHANOL EXTRACT AGAINST

Fasciola gigantica AND Ascaris suum IN VITRO

Firdha Hanan Nifa

ABSTRACT

The aims of this study is to know the Anthelmintic Activity of Methanol Extract of Sponge Gourd Fruit (Luffa acutangula) Against F. gigantica and A. suum worm in vitro. Method that used in the research was completely randomized design. There were four treatments and each treatment was done in five replications. This research used ten F. gigantica and A. suum in each treatment for all replication. The observation and recording of dead F. gigantica was done at 2, 4, 6, 8, 10 hours and at 26, 28, 30, 32, 34 hours for A. suum. The worm were declared dead if there was no movement when disturbed by anatomy tweezers and when dipped in slightly warm water (50°C). 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 Luffa acutangula. Methanol extract was 5%, the higher concentration of the extract, the higher property of its anthelmintic. Probit analysis was used to calculate the LC50 and LC90.

Keywords: Sponge gourd extract, anthelmintic, F. gigantica, A. suum.