EFFECTIVENESS OF PAPAYA LEAF (Carica papaya) ETHANOL EXTRACT AS AN ANTHELMINTIC AGAINST Ascaridia galli IN VITRO

Putri Fajar Nihayah

ABSTRACT

The aim of this study is to determine the anthelmintics effect of male papaya leaf ethanol extract and female papaya leaf ethanol extract against Ascaridia galli worm in vitro. In this research, using 200 samples of Ascaridia galli with length 7-11 cm without differentiating their sex. The concentration of each ethanol extract were 2% w/v, 4% w/v, and 8% w/v. Negative control was used CMCNa 0.5%. Positive control was used Piperazine citrate 0.5% w/v. Each petri dish was given 25 ml of solution, contained 5 worms, and were incubated at 37°C. The procedure then being replicated five times. The data were obtained from the number of paralysis and death of worm for each treatment. Analysis of the data at the 4 hours, 8 hours, 12 hours, 16 hours, 20 hours and 24 hours using ANOVA test and Duncan Range Test, by SPSS for Windows 21. ANOVA result showed significantly differences among treatments (p<0.05). Duncan Range Test result showed that female papaya leaf extract ethanol 8% w/v had an anthelmintic effects which comparable with Piperazine citrate 0.5 % w/v, while male papaya leaf extract 4% and 8% had an anthelmintic effects higher than Piperazine citrate since observation at 20th hour.

Keyword : Carica papaya leaf, anthelmintic, Ascaridia galli