

**EFFECTIVENESS OF PUMPKIN SEED (*Cucurbita moschata*)
ETHANOL EXTRACT ON MORTALITY OF
Ascaridia galli IN VITRO**

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ABSTRACT

The aim of the research are to determine the effectiveness of pumpkin seed ethanol extract on increasing mortality of *Ascaridia galli* in vitro, to determine the value of EC₅₀ and LT₅₀. Research design that has been used for this research was post test only groups design. This research used 100 *Ascaridia galli* regardless of sex with length 7-10 cm. This research used five treatments and four replication. The concentration of ethanol extract of pumpkin seed suspension were 5%, 10% and 20%. 1% CMC-Na suspension and piperazine citrate 10 mg/ml suspension was being used as control. The observation time was done at 2, 4, 6, 8, 10, and 12 hours. *Ascaridia galli* declared died if there was no movement after being disturbed with anatomy tweezers and being dipped in 50°C water. The data was then used for statistical data analysis using ANOVA factorial and continued with Duncan Multiple Range Test by SPSS. The result was the 10% concentration of pumpkin seed ethanol extract was the most effective on increasing mortality of *Ascaridia galli*. Probit analysis showed that the 13.45% ethanol extract of pumpkin seed suspension the most effective to kill 50% of *Ascaridia galli* population. The LT₅₀ of piperazine citrate 10 mg/ml suspension was at 12.87 hours, and LT₅₀ of ethanol extract of pumpkin seed suspension on various treatment are 5% concentration is at 12.45 hours, 10% concentration is at 8.47 hours, 20% is at 5.76 hours.

Keywords: *Ascaridia galli*, anthelmintic, *Cucurbita moschata* seed, ethanol extract, piperazine citrate.