

**THE POTENTIAL ANTHELMINTIC TEST OF PETAI CINA SEEDS
(*Leucaena leucocephala*) AGAINST *Ascaris suum* IN VITRO**

Pramitha Purba Winata

ABSTRACT

Petai cina seeds (*Leucaena leucocephala*) is one of the traditional medicine plant which contains tannin, saponins, flavonoids and triterpenoids, and that are anthelmintic. This research was conducted to determine the anthelmintic effect of Petai cina seeds (*Leucaena leucocephala*) infusion against *Ascaris suum* worm *in vitro*, compared to piperazine citrate solution (10mg / ml) as the positive control and aquadest as the negative control. In this research, the researcher uses 240 samples of *Ascaris suum* with length 10-20 cm without differentiating their sex. They were divided into 6 treatment groups in plastic bowl petai cina seeds infusion at the concentration of 10%, 20%, 40% and 80%, piperazine citrate solution (10mg / ml) and aquadest. Each plastic bowl was given 100 ml of solution, contained 10 worms, and was incubated at 37°C. Then, the procedure is replicated four times. The data are obtained from the number of dead worms for each treatment. Then, those data is analyzed using ANOVA factorial test, followed by Duncan test, by *SPSS 21 for Windows* program with a significance level of $p < 0.05$. Based on the researcher's data analysis, petai cina seeds (*Leucaena leucocephala*) infusion has anthelmintic activity against *A. suum in vitro*. The greater of the concentration and the longer time of the immersion, will make the death percentage of *A. suum* become higher. Concentration of petai cina seeds (*Leucaena leucocephala*) infusion 80% can kill 100% of the *A. suum* during 36 hours of immersion.

Key Words: Anthelmintic, Petai cina seeds, *Ascaris suum*