

**THE ANTHELMINTIC EFFECT OF SOURSOP LEAVES (*Annona muricata* L.) INFUSION ON LETHAL DEATH TIME OF *Ascaridia galli* IN VITRO**

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**ABSTRACT**

*Ascaridia galli* is a parasite that is most often found in poultry and cause high economic losses. Soursop leaves (*Annona muricata* L.) have been used in traditional anthelmintic medicine. This research was conducted to determine the anthelmintic effect of soursop leaves (*Annona muricata* L.) infusion on lethal death time of *Ascaridia galli* *in vitro*. In this research used *Ascaridia galli* with length 7-11 cm without differentiating their sex. The concentrations of soursop leaves (*Annona muricata* L.) for immersion the *Ascaridia galli* were 50%, 70% and 100% as treatment group, respectively. The negative control used NaCl physiology (0.9 %). The result showed that the increase of concentration decreased lethal death time. The lethal death time on concentration of 50%, 70% and 100% were 11 hours 48 minutes, 11 hours 24 minutes and 10 hours 48 minutes respectively. ANOVA test showed significant difference between control and treatment group ( $p < 0.05$ ). Duncan multiple range test was seen the best treatment was the shortest lethal death time in concentration of 100%.

**Keywords** : Soursop leaves, *Ascaridia galli*, *Annona muricata* L., lethal death time