# EFFECT OF *Tamarindus indica* (SAMPALOC) CRUDE LEAF EXTRACT ON THE EGG DEVELOPMENT OF *Ascaridia galli*

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## ABSTRACT

Poultry animal such as chickens (*Gallus gallus domesticus*) is one of the leading sources of organic foods in the Philippines. However, parasites such as *Ascaridia galli* cause negative effect on meat and eggs production. Accordingly, anthelmintic drugs such as Albendazole have been a successful aid to fight against parasitic infection until parasites have developed anthelmintic resistance, thus, Sampaloc (*Tamarindus indica*) has been used in this study to assess its effect on the egg development of *A. galli*. Different concentrations of T. indica crude leaf extract were prepared at 20% (T1), 40% (T2), 60% (T3) and 80% (T4) as well as control groups, Albendazole (T+) and Phosphate Buffer Solution (T0). A. galli eggs were incubated per treatment and replicated three times. After 21 days of incubation under room temperature, results revealed that the *T. indica* crude leaf extract with 20% concentration exhibits the highest effect in slowing the development of eggs at 61.9 percent undevelopment, followed by T2, T4 and T3 with 50%, 47.1% and 46.6% respectively. In addition, T1 was found to have caused death to eggs at 18.6% which is much lower as compared to the ovicidal ability of Albendazole at 74.1%. This study indicated that the *T. indica* crude leaf extract can be used to prevent A. galli eggs development to L3 stage. However, supplementation may be added to increase its efficacy.

Keywords: *Gallus gallus domesticus, Ascaridia galli, eggs development, Tamarindus indica crude leaf extract*

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