

ANTHELMINTIC ACTIVITY OF *Areca catechu* Linn. AND *Dioscorea hispida* Dennst.  
FREEZE DRIED EXTRACTS AGAINST *Ascaridia galli* S. *IN VITRO*

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By

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**ABSTRACT**

This study was conducted from February 12 to 14, 2019 at CPU-CARES research laboratory at the Research and Development Learning Center, Jaro, Iloilo City. The study was conducted to evaluate the *in vitro* anthelmintic activity of freeze dried betel nut and bitter yam extracts against adult *A. galli* worms. The experimental treatments were composed of 100% betel nut; 100% bitter yam; 50% betel nut and 50% bitter yam; 30% betel nut and 70% bitter yam; 70% betel nut and 30% bitter yam. Each of these experimental treatments had varying concentrations (40, 60, 80 mg/ml). Procured albendazole (commercial dewormer), Goodwin's solution and distilled water were used as control treatments. These treatments were laid out in a completely randomized block design with three replications with four worms for every treatment in each replicate. The anthelmintic activity of extracts was assessed through percentage paralysis/death for 24-hour relative to the use of vermex at 15 mg/ml. Results of the study revealed that both plant extracts either in combination or solely used were found to be time and concentration dependent. After 24-hour exposure, percentage paralysis/death of *A. galli* worms treated with plant extracts was comparable to that of *A. galli* applied with synthetic dewormer used. However, bitter yam was a more efficient anthelmintic alternative in treating ascariasis in chickens than betel nut in terms of the length of time of worm paralysis.

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