

**EVALUATION OF THE *IN VITRO* ANTHELMINTIC ACTIVITY OF *Tinospora rumphii*
Boerl, *Areca catechu* L. AND *Dioscorea hispida* Dennst. EXTRACT
AGAINST *Ascaridia galli* IN PHILIPPINE NATIVE CHICKEN**

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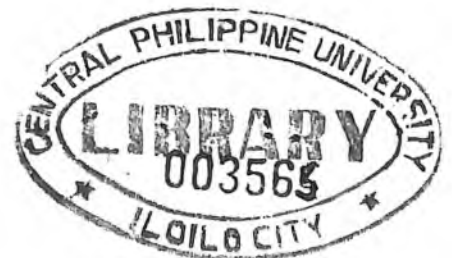
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By

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ABSTRACT

The study was conducted to evaluate the anthelmintic activity of *Tinospora rumphii* Boerl, *Areca catechu* L. and *Dioscorea hispida* Dennst. against *Ascaridia galli* at three dose concentration (10mg/ml, 20mg/ml, 30mg/ml). Commercial dewormer and Goodwin's solution was used as positive and negative control, respectively. The study involved the determination of the percent worm mobility inhibition (%WMI) and percent mortality (%M). The experiment was carried out in 33 petri dishes with 4 worms each. The experimental treatments were laid out in a completely randomized design (CRD) with three replications each. Results revealed that 20mg/ml and 30mg/ml of Makabuhay stem extract (MSE) and Asiatic bitter yam extract (ABYE) and commercial dewormer were equally effective in terms of %WMI after 12, 18 and 24 hours post exposure. All the dose concentrations of betel nut extract had the least %WMI and %M. On the other hand, the commercial dewormer, 20 and 30mg/ml MSE and 30mg/ml ABYE showed the highest effect in terms of % mortality of *A. galli* after 24 hours post exposure with betel nut extract being the least effective among the treatment plants having (66.67%, 75% and 83.33%). It can be concluded that ABYE and MSE at different concentrations significantly affect the %WMI and %M of *A. galli* worms. With the 20mg/ml and 30mg/ml

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