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CENTRAL LUZON STATE UNIVERSITY



**EVALUATION OF MOLLUSCICIDAL PROPERTY OF *Areca catechu* P. FRUIT
EXTRACTS USING INDIGENOUS SOLVENT ON GOLDEN APPLE SNAILS
(*Pomacea canaliculata* L.)**

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An Undergraduate Thesis Submitted to the Faculty of Department of
Biological Science, College of Arts and Sciences, Central Luzon
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BACHELOR OF SCIENCE IN BIOLOGY

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ABSTRACT

ESCOBAR, JERICK S. Bachelor of Science in Biology, Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, June 2017. **EVALUATION OF MOLLUSCICIDAL PROPERTY OF *Areca catechu* P. FRUIT EXTRACTS INDIGENOUS SOLVENT ON GOLDEN APPLE SNAILS (*Pomacea canaliculata*L.)**

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This study was conducted to evaluate the molluscicidal property of *Areca catechu* plant extract against young and adult golden apple snails (*Pomacea canaliculata* L.). The effect of the vinegar and lambanog extracts on the mortality of the golden apple snails was determined. Spray method was used in the study to verify the bio efficacy of *A. catechu* plant extracts against golden apple snails.

The indigenous extract was used to as indigenous extract for the bioassay of percent mortality of golden apple snails at 24, 48 and 72 hours after exposure to the extract treatment. The percent mortality of the golden apple snails in the positive control was consistently high of its effectiveness with 100% death of golden apple snails. The indigenous extract of *A. catechu*, lambanog and vinegar extracts was evident in all treated golden apple snails . The plant extract of *A. catechu* was effective at last hrs 72 (hrs) and can kill almost 80% to 90% death of golden apple snails.

Furthermore the molluscicidal potential of *A. catechu* phytochemical screening maybe due to the presence of tannins, alkaloids, flavonoids, cardiac glycosides



and saponin. The effectiveness of *A.catechu* extracts was evident in all treated golden apple snails plant studied is potential source of natural molluscicide.



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