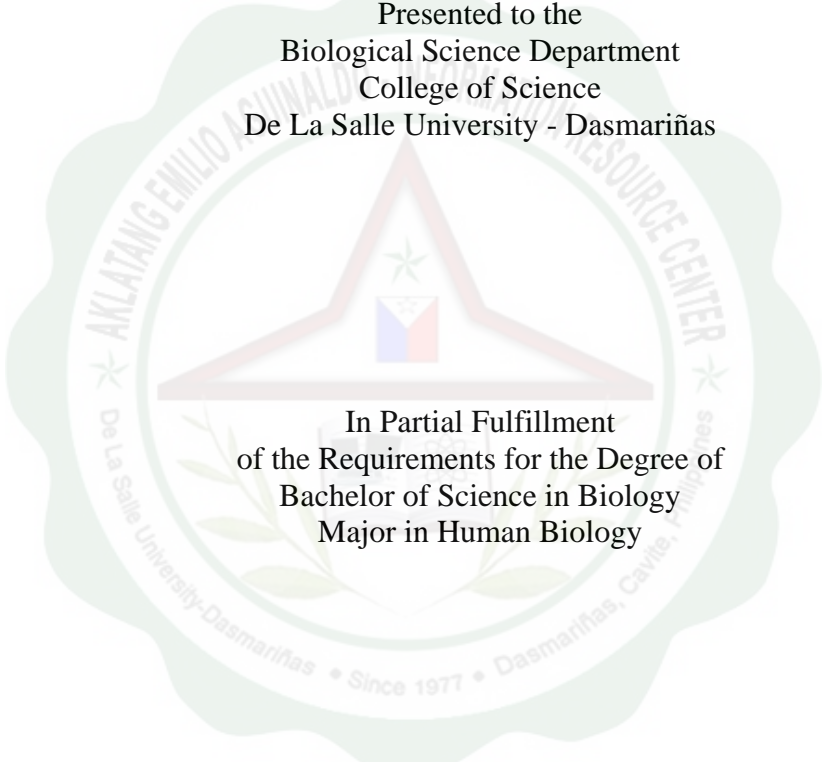


HISTOCHEMICAL TESTS ON SELECTED LAMIACEAE SPECIES  
FOUND IN DE LA SALLE UNIVERSITY - DASMARIÑAS

An Undergraduate Research  
Presented to the  
Biological Science Department  
College of Science  
De La Salle University - Dasmariñas

The seal of De La Salle University - Dasmariñas is a circular emblem with a scalloped border. It features a central shield with a blue field containing a white cross and a red field containing a white cross. Above the shield is a green star. The shield is flanked by two green branches. The text "AKLATANG EMILIO AQUINO" is written along the top inner edge, and "RESOURCE CENTER" is written along the right inner edge. The bottom inner edge contains the text "De La Salle University - Dasmariñas • Since 1977 • Dasmariñas, Cavite, Philippines".

In Partial Fulfillment  
of the Requirements for the Degree of  
Bachelor of Science in Biology  
Major in Human Biology

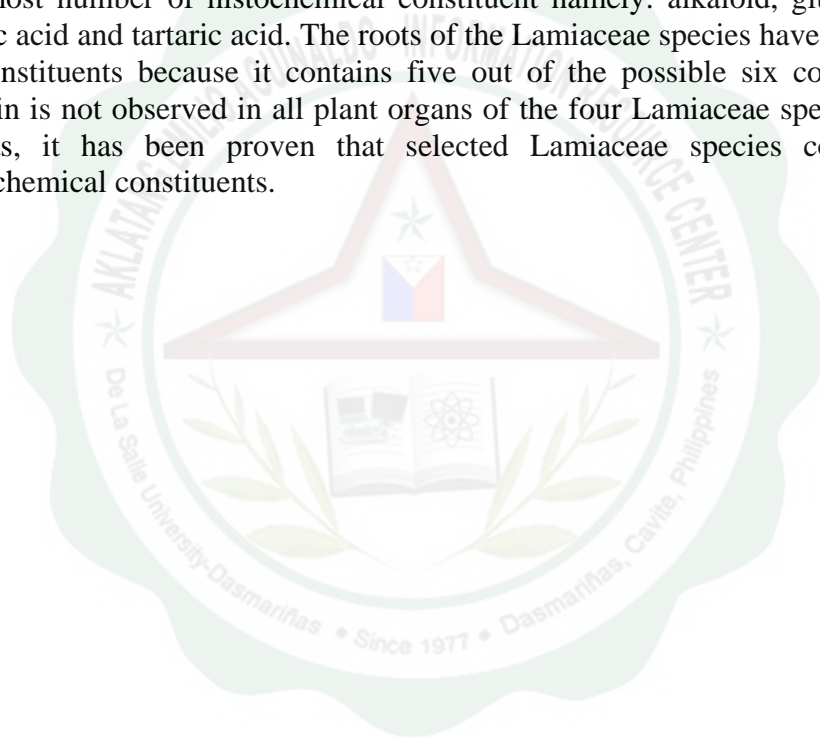
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## ABSTRACT

This study was conducted to determine the histochemical constituents on the selected species of Lamiaceae found in De La Salle University – Dasmariñas. Four species were investigated, namely: *Coleus amboinicus* (oregano), *Coleus blumei* (mayana), *Ocimum sanctum* (sulasi) and *Orthosiphon aristatus* (balbas pusa). The roots, stems and leaves of each plant species were subjected to histochemical tests, i.e. alkaloids, tannins, glucosides, saponins, oxalic acid and tartaric acid. Results showed that alkaloid is the most abundant histochemical constituent observed among all plant organs of *Coleus amboinicus* (oregano), *Coleus blumei* (mayana), *Ocimum sanctum* (sulasi) and *Orthosiphon aristatus* (balabas pusa). *Coleus amboinicus* (oregano) has the most number of histochemical constituent namely: alkaloid, glucoside, saponin, oxalic acid and tartaric acid. The roots of the Lamiaceae species have the most number of constituents because it contains five out of the possible six constituents tested. Tannin is not observed in all plant organs of the four Lamiaceae species. Base on the results, it has been proven that selected Lamiaceae species contain important histochemical constituents.



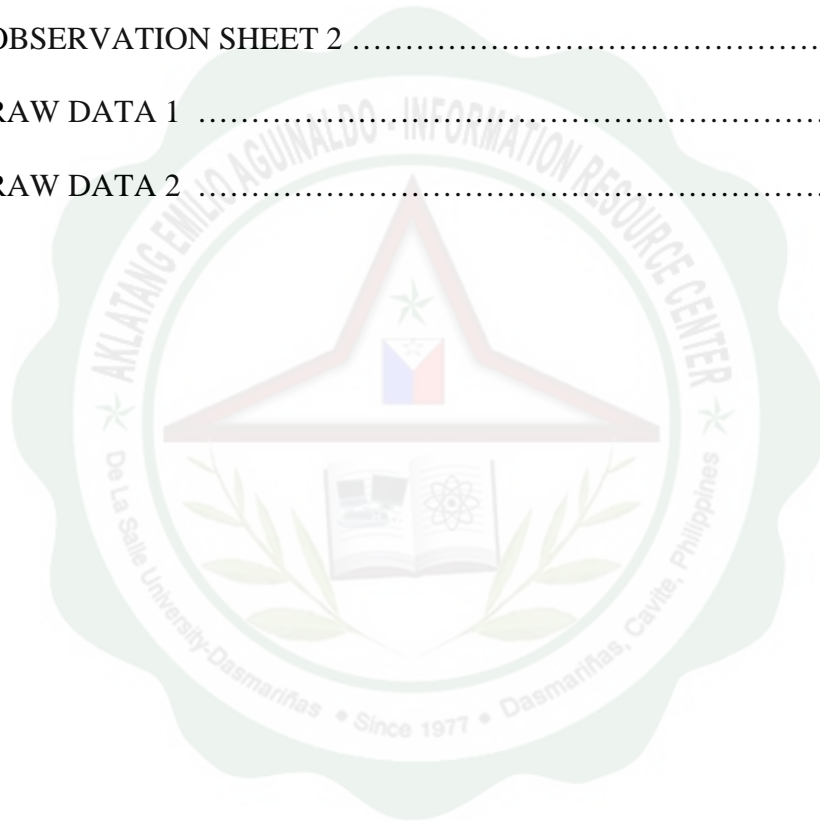
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