

The Potential Bacteriostatic Property of Karmay (Phyllanthus Acidus) Leaf Extract as an Organic Component for Hand Sanitizer

Ryan Jay G. Mostoles
Lorma Colleges, Philippines.



Abstract

The study determined the potential antibacterial property of Karmay leaf extract as an organic component of hand sanitizer using the different concentrations (100%, 75% and 50%) prepared. Specifically, the experiment tried to ascertain which phytochemical constituents of *Phyllanthus acidus* exhibit antibacterial property. It also sought which extract and what percentage concentration exhibits the minimum zone of inhibition against *Staphylococcus aureus*.

The findings of the study revealed that the

- (1) *Phyllanthus acidus* contains phenols and tannins which are phytochemical that exhibit antibacterial activity.
- (2) the minimum zone of inhibition (5.06 mm) was exhibited on the 100% concentration.
- (3) there is no significant difference among the 50%, 75% and 100% concentration with and without preservatives of extracts in terms of their effectiveness against *S. aureus*.
- (4) there is a significant difference between the control and three extracts 50%, 75%, 100%. Based on the findings, the karmay leaf extract does not possess the potential to be an organic component of hand sanitizer.

Biography:

Ryan Jay G. Mostoles has completed his Bachelor's degree in Medical Laboratory Science from Lorma Colleges and currently taking up his Master's degree in Biology from Don Mariano Marcos Memorial State University. He is working as Instructor and faculty member of the College of Medical Laboratory Science, Lorma Colleges. He holds the designation as Research Coordinator.

[7th International Conference and Exhibition on Natural Products and Medicinal Plants Research](#); Barcelona, Spain- July 22-23, 2020.

Abstract Citation:

Ryan Jay G. Mostoles, The Potential Bacteriostatic Property of Karmay (*Phyllanthus Acidus*) Leaf Extract as an Organic Component for Hand Sanitizer, Natural Products 2020, 7th International Conference and Exhibition on Natural Products and Medicinal Plants Research; Barcelona, Spain – July 22-23, 2020.

(<https://naturalproducts.pharmaceuticalconferences.com/abstract/2020/the-potential-bacteriostatic-property-of-karmay-phyllanthus-acidus-leaf-extract-as-an-organic-component-for-hand-sanitizer>)

