

Formulation and Use of Skin Friendly Antimicrobial Dish Wash †

Akshaya Radhu R ¹, Karthikeyan Ramalingam ^{1,*}

¹ School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur, Chennai -600 048, India

* Correspondence: karthikeyan.sls@crescent.education;

† Presented at Virtual symposium to observe World Antimicrobial Awareness week “Applications of biotechnology and microbiology with special emphasis on Antimicrobial resistance”, 18-24 November 2020, Chennai, India

Received: 10.11.2020; Revised: 15.11.2020; Accepted: 17.11.2020; Published: 10.01.2021

Abstract: The dishwashing liquid which we are using in our day-to-day life contains a plethora of chemicals lurking in it. To develop skin-friendly natural ingredients containing dish wash and provide not only non-toxic and safe dish wash for your utensils but also gentle on your skin. It employed in the formulation of this skin-friendly dish wash gives rise to different, resulting in organic products. The procedure is specified as follows: Appropriate amount of neem leaves, *Trigonella foenum-graecum*, Bengal gram, ash, tamarind, and activated charcoal of dried and powdered natural ingredients were soaked in some amount of distilled water and left overnight at room temperature away from the direct sunlight, the next day the mixture is filtered with the help of fresh muslin cloth, now the appropriate amount of filtrate is mixed with a significant amount of coconut oil and distilled water; this mixture is homogenized with the help of magnetic beads; further addition of significant drops of essential oil of lemongrass leads to the formulation of liquid. Formulation of another form of soap, an appropriate amount of caustic soda, baking soda, washing soda, and sodium lauryl sulfate as added and poured and left for 12 hours. The susceptibility test from agar plate method, well diffusion method, MIC, Coupon test, of these three resulting powder, liquid, soap will be tested, analyzed, and the products were finalized.

Keywords: organic; dishwashing; non-toxic; natural ingredients.

© 2021 by the authors. This article is an open-access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Funding

This research received no external funding.

Acknowledgments

This research has no acknowledgment.

Conflicts of Interest

The authors declare no conflict of interest.