

Formulation and Evaluation of Herbal Hand Sanitizer

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Abstract: *The main intention of this research is to prepare tulsi and Neem based herbal gel sanitizer by minimizing the alcoholic usage and to evaluate the anti-bacterial activity of this herbal sanitizer. Methods: tulsi and Neem gel sanitizer was prepared from the ethanolic extract of Ocimum Tenuiflorum and Azadirachta indica (along with addition of gel base prepared from HPMC-E15. Results: The tulsi and Neem gel sanitizer was formulated and evaluated for its phytochemical constituents present in tulsi and neem, organoleptic properties, irritancy test and the efficiency of anti-bacterial activity of tulsi was also evaluated and it is safe and effective against pathogens. Conclusion: As a natural herb, tulsi and neem which was a household ingredient could also be effectively formulated as a sanitizer that reduces the side effects of alcoholic sanitizer products and is a best source that acts effectively against a numerous pathogens..*

Keywords: tulsi, HPMC-E15 (hydroxypropyl methylcellulose), Pathogens