

Formulation and Evaluation of Herbal Hand Sanitizer

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Abstract: *The growing threat of infectious illnesses has heightened the necessity for hand hygiene products. However, the frequent use of chemical-based sanitizers often results in skin problems and irritation. Microbes and diseases are first spread through the hands. A crucial idea and practice in the prevention, management, and decrease of diseases is hand cleanliness. The herbal hand sanitizers have emerged as a safe and effective alternative to chemical-based sanitizers. This study aims to develop and evaluate a herbal hand sanitizer using natural ingredients such as Neem (*Azadirachta indica*), Tulsi (*Ocimum sanctum*), Aloe vera (*Aloe barbadensis*), Turmeric (*Curcuma longa*), and Orange essential oil to provide effective antimicrobial action while maintaining skin health. The herbal ingredients produce the antibacterial effect. The use of herbal extracts in hand sanitizers not only provides antimicrobial activity but also offers additional benefits such as moisturization and skin conditioning. Furthermore, herbal hand sanitizers are eco-friendly and sustainable, making them a preferable choice for environmentally conscious consumers.*

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