

# Formulation and Evaluation of Herbal Hand Sanitizer

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**Abstract:** *Hand hygiene is important because it can easily be transmitted through direct contact with microbial spores produced during coughing and sneezing. It is important to prevent the spread of the disease, especially in cases such as epidemics, through the use of antibiotics. This can be achieved by establishing and maintaining strict infection control equipment such as good hygiene in hospitals and public places. The aim of this study is to prepare an alcohol-based sanitizer against bacterial infections. After the test, the pH value of the disinfectant is between 6.65 and 6.67. The viscosity of the antiseptic is between 389 cps to 835. The spread ability was good and found in range between 6.55 to 7.18 g- cm/sec. The drug content of Eucalyptus Oil in formulations was found to be 93% in F1 and 97.5% in F2. In-vitro drug release study was found to be 56.2% in F1 and 60.6% in F2, and the stability of the preparation remained stable after 3 months of storage. All these studies showed that the F2 formulation is the best as it has better pH, viscosity, spreading ability and safety*

**Keywords:** Herbal ingredients; hand disinfection; infection control

