

# Evaluation of Microbial Contamination in Herbal Preparation Used in Respiratory Tract Infection

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**Abstract:** Herbal medicine is used in most part of India to prevent treat and cure for many diseases. In the light of COVID-19 pandemic most of Indians used herbal medicine for treatment of respiratory tract infection. A research method designed to evaluate the physicochemical properties and microbial contamination of herbal preparation used in respiratory tract infection. Several tests have been performed to evaluate physical and chemical properties such as total solids, alcohol and water-soluble extracts, loss on drying, pH and moisture content, and microbial contamination. . Standard procedures are in place for the assessment of pathogens in herbal formulations. Different test results such as total solid content, alcohol- and water-soluble extractive values, loss of drying, pH assessment, and moisture level are found to within the limits as per pharmacopeia standards. Further, total yeast count and total aerobic viable count are also found to be near the standard values. No any finished herbal preparation containing pathogenic bacteria. Hence, herbal preparation shown all physicochemical properties in the limit values of Indian pharmacopoeias further theses herbal medications in Indian local market area are not likely to be contaminated with potentially pathogenic bacteria (*Escherichia coli*, *Salmonella Typhi*, and *Staphylococcus aureus*). The quality of these finished medicines promises to meet the standards of the Pharmacopoeia.

**Keywords:** Herbal Preparations, Respiratory Tract Infection, Microbial Contamination, Pathogens, Bacteria, Standards Etc

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