

# Preparation and Evaluation of Herbal Tooth Powder

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**Abstract:** Herbal tooth powders made from various ingredients are extensively available in the market. Thus, modern techniques that emphasize these elements are advantageous for the standardization of herbs and their formulations. Consumers perceive that using herbal-based tooth powders is safe, effective, and has less toxicity. This research intends to offer an alternative for consumers and formulate an herbal tooth powder utilizing Clove, Neem, Babool, Tulsi, Pink salt, Cinnamon, Fennel, Alum, Mentha, and Camphor. Infections in the oral cavity are among the most common types of infections. Dental caries, which is an infectious disease, damages and infects enamel and dentine. If it is not treated, the infection continues and can eventually result in tooth loss. The mouth contains a normal flora of opportunistic bacteria that are typically non-pathogenic. An imbalance in this ecosystem can lead to infections and tooth decay. *Streptococcus mutans* is recognized as the main species responsible for the development of dental caries. *S. mutans*, which is an acid-producing bacterium, ferments carbohydrates, causing tooth decay. Consequently, this current study is designed to focus on the following aspects of herbal tooth powders: formulation, standardization of herbal tooth powder, and antibacterial testing of the herbal tooth powder extracts. The enamel is a composite substance comprised of hydroxyapatite. It additionally contains 70% collagen and water. Fluorine is the main element found in dentine. It comprises not only teeth but also saliva, which aids in the consumption of food. Saliva has a vital function in moistening food and preserving an ideal environment in the mouth. Dentifrices are products used to maintain oral hygiene, such as ensuring freshness in the mouth and preventing dental decay. Oral hygiene can be maintained throughout the day by utilizing different dentifrices made from both herbal and synthetic substances.

**Keywords:** Clove, Fennel, Antibacterial, Dental analgesic

