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Formulation and Evaluation of Moringa oleifera-Enriched Herbal Tooth Powder

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Abstract: *The present study focuses on the formulation and evaluation of an herbal tooth powder (tooth powder) using Moringa oleifera leaves powder as the main ingredient, combined with other traditional herbal components including neem, clove, turmeric, liquorice, mint, rock salt, and activated charcoal. Herbal oral care formulations have gained popularity due to their safety, efficacy, and natural therapeutic actions such as antibacterial, anti-inflammatory, and astringent effects. The formulation was prepared using standard procedures and evaluated for organoleptic, physicochemical, and functional parameters including pH, moisture content, water and acid soluble extractive values, spreadability, and abrasiveness. The results showed the formulation had a neutral pH of 7.0, low moisture content (3.6%), acceptable extractive values (water: 8.4%, acid: 2.8%), good spreadability (5.1 cm), and mild abrasiveness. All values were within standard acceptable ranges, confirming the formulation's safety and effectiveness. This study highlights the potential of Moringa oleifera-based tooth powder as a natural, stable, and efficient alternative to chemical-based oral hygiene products.*

Keywords: Herbal tooth powder, Moringa oleifera, Oral hygiene, Physichochemical evaluation, Natural formulation

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