

# INFUSE 2025: International Conference on Frontiers of Unified Science and Exploration



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## HERBAL FORMULATION FOR ORAL HYGIENE

### Abstract

The present study focuses on the formulation of an herbal oral mouth spray as a sustainable alternative to synthetic fresheners. The formulation was designed to integrate plant-derived bioactives (*Clitoria Ternatea*) exhibiting antioxidant and antimicrobial potential, combined with non-cariogenic sweetening and natural preservation strategies. Physicochemical characterization and preliminary stability assessments confirmed acceptable pH, clarity, and storage resilience. Functional evaluation demonstrated rapid breath-freshening effects with indications of antimicrobial activity against common oral pathogens. Sensory analysis suggested positive consumer acceptability. These findings support the potential application of herbal-based formulations in promoting oral hygiene, while offering a safe, effective, and environmentally responsible solution for oral care.

### Keywords:

Antioxidant; Antimicrobial, Herbal-based spray, Sustainable oral care.

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