

(54) Title of the invention : Formulation of Simarouba Glauca leaf antimicrobial mouthwash

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(57) Abstract :

**ABSTRACT FORMULATION OF SIMAROUBA GLAUCA LEAF ANTIMICROBIAL MOUTHWASH** This invention discloses a novel, alcohol-free antimicrobial mouthwash formulation comprising a standardized leaf extract of Simarouba glauca. The composition addresses the clinical drawbacks of synthetic antiseptics, such as tooth staining and mucosal irritation, by utilizing a biocompatible aqueous vehicle. Through a synergistic system of 0.5% Tween-20 and 4% Mannitol, the formulation effectively solubilizes hydrophobic triterpenoids without ethanol. Standardized via RP-HPLC for consistent phytochemical potency, the mouthwash demonstrates antimicrobial efficacy against Streptococcus mutans superior to 0.2% chlorhexidine. Pilot clinical trials confirm a 25.7% reduction in plaque scores with high user acceptability. Validated for physical and chemical stability over six months, this invention provides a cost-effective, shelf-stable, and safe herbal alternative for daily oral hygiene and gingival health. Fig. 1

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