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(57) Abstract :

This invention relates to a novel dental gel formulation combining clove and coriander oil for the treatment of periodontal inflammation. Periodontal disease, a common dental inflammatory condition, is primarily caused by bacterial infection and poor oral hygiene. This innovative gel formulation leverages the synergistic anti-inflammatory properties of clove and coriander oils, offering a natural alternative to conventional treatments. The gel is prepared using Carbopol 934 polymer, triethanolamine, methyl and propyl parabens, propylene glycol, glycerine, and distilled water, ensuring optimal consistency and stability. The combination gel exhibits superior anti-inflammatory efficacy, with a 78% inhibition of protein (albumin) denaturation, compared to individual clove or coriander oil gels. This formulation provides an effective, safe, and cost-efficient solution for reducing periodontal inflammation and improving oral health. Accompanied Drawing [FIGS. 1-3]

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