

Formulation and Evaluation of Pharmaceutical Aqueous Gel of Powdered Guava Leaves for Mouth Ulcer Treatment

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Abstract: *The objectives of present investigation were to formulate and evaluate herbal gel for mouth ulcer treatment of dried powdered guava leaves. Herbal gel was prepared by using different concentration of powdered guava leaves and Carbopol 934, Propylene glycol as a gel base. Formulations were evaluated for various parameters Infrared spectroscopy revealed that there was no interaction between powdered Guava leaves and Polymer. The formulated gel was transparent, homogeneous and pH ranges from 7 to 7.5. Formulation showed acceptable rheological behaviour with applicable Spreadability and Extrudability properties. Anti-fungal studies of formulations showed excellent efficacy against *Aspergillus aureus*, *Candida albicans*. From the experimental evidence of invitro studies it was observed that powdered guava leaves contain flavonoids so it showed significant antioxidant effect. Developed herbal formulation was stable, safe and effective over to synthetic formulations for the treatment of mouth ulcer..*

Keywords: Psidium guajava Linn; Leaf powder, Herbal gel , Mouth ulcer

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