

Formulation and Evaluation of Herbal Lozenges for Sore Throat Treatment

Pratiksha Parasram Shinde and Prof. Manisha Virkar

Dr. Babasaheb Ambedkar Technological University, Lonere

Abstract: Mouth ulcers are another issue that significantly impacts oral health and patient comfort. These lesions are breaks or ruptures in the mucous membrane lining the interior of the mouth, and they can appear anywhere within the oral cavity. The ulcer's appearance is typically yellow or white, with a depressed center that may cause significant discomfort.

This study focused on developing and testing fast-dissolving oral films comprising extracts of *Glycyrrhiza glabra* and *Moringa oleifera* for the treatment of mouth ulcers. The extracts were mixed into films made using the solvent casting method with a polymer using HPMC, Glycerine served as a plasticiser and sweetener. The films were tested for thickness, colour variation, weight variation, folding endurance, surface pH, % moisture uptake, percentage moisture loss, disintegration time, in vitro drug release, and stability.

The dry powder of *Glycyrrhiza glabra* and *Moringa oleifera* were used in this research. The film focused on the treatment of oral ulcer with improved bioavailability and patient compliance. The developed formulation can be the modern dosage form for the improvement of the drug release.

Keywords: *Glycyrrhiza glabra*, *Moringa oleifera* Mouth ulcer, Oral film, Solvent casting method, Improved bioavailability

