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(57) Abstract :
A composition for masking the unpleasant taste of bitter medications includes a thin, fast-dissolving oral film and miraculin, a taste-modifying protein derived from Synsepalum dulcificum fruit. When dissolved in the oral cavity, miraculin binds to human taste receptors, altering the perception of bitter substances to taste sweet. The oral film is produced using a solvent casting method, involving dissolving a biopolymer and miraculin in a suitable solvent, casting the solution onto a flat surface, and allowing the solvent to evaporate. The composition may include additives such as plasticizers, stabilizers, and preservatives, and is suitable for pediatric and geriatric patients, as well as those with chronic conditions requiring long-term treatment with bitter medications. It is packaged in moisture-proof packaging to maintain its form and functionality.

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