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(57) Abstract :

ABSTRACT TITLE: FORMULATION AND EVALUATION OF ANTIFUNGAL HERBAL PASTILLES FOR ORAL CANDIDIASIS The present invention relates to antifungal herbal pastilles formulated using Moringa oleifera leaf juice and Glycyrrhiza glabra root decoction incorporated into a gelatin-glycerin matrix for treating oral candidiasis caused by Candida albicans. The pastilles contain bioactive phytochemicals including alkaloids, flavonoids, and tannins that exhibit significant antifungal activity. The formulation demonstrates an inhibition zone of 2.8 centimeters against Candida albicans compared to 3.4 centimeters for conventional clotrimazole. The pastilles exhibit favorable physicochemical properties including neutral pH of 6.8 compatible with oral mucosa, uniform physical appearance, complete dissolution within 15 minutes at physiological temperature, and acceptable organoleptic characteristics. The invention provides a safe, effective, and cost-efficient natural therapeutic alternative for managing oral fungal infections, particularly beneficial for immunocompromised patients and those experiencing adverse effects from synthetic antifungal agents.

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