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Antifungal Mechanism of Foeniculum Vulgare

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Abstract: *The escalating prevalence of drug-resistant fungal infections has intensified the need for alternative treatments. This study describes the development and evaluation of a novel herbal antifungal cream utilizing Foeniculum vulgare (fennel) seed extract as the primary active ingredient. The cream, which incorporates natural ingredients such as aloe vera gel, coconut oil, and beeswax, is designed for topical application to treat superficial fungal infections. Comprehensive evaluations included physical characteristics, pH, spreadability, homogeneity, viscosity, and antifungal efficacy against Candida albicans. The cream exhibited a smooth texture, a pH of 5.8 suitable for skin application, excellent spreadability, and significant antifungal activity without causing skin irritation. These findings suggest that the Foeniculum vulgare-based cream is a promising, safe, and effective alternative to synthetic antifungal agents*

Keywords: Foeniculum vulgare, herbal antifungal cream, fennel seed extract, natural antifungal, topical treatment, skin infections, antifungal efficacy, herbal medicine, cream evaluation

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