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(57) Abstract :

The present invention relates to the formulation and evaluation of an antifungal emulgel containing Styrax benzoin. The emulgel, combining the benefits of gels and emulsions, enhances drug penetration and provides sustained release of the active ingredient. The formulation includes Carbopol 934, liquid paraffin, Tween 80, Span 80, propylene glycol, and methyl paraben. Comprehensive evaluations were conducted to assess physical properties, viscosity, pH, spreadability, drug content, in vitro drug release, antifungal activity, and stability. The optimized formulation (F7) demonstrated a high drug release rate of 92.5% at 8 hours and significant antifungal efficacy against *Candida albicans*, comparable to standard antifungal agents. The non-greasy, smooth texture improves patient compliance, making this emulgel a promising alternative for effective antifungal treatment.

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