

Examining Itraconazole Gel's Effectiveness in Treating Fungal Dermatological Condition

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Abstract: *Itraconazole is an antifungal medication commonly used to treat a variety of systemic and superficial fungal infections. While itraconazole is typically available in oral capsule form, you can combine them to create a topical gel to treat fungal skin infections. This process involves extracting the active ingredients from itraconazole capsules and incorporating them into a suitable gel base, such as a carbomer or hydroxyethyl cellulose -based formulation. The gel base is prepared by dissolving the active ingredient in an appropriate solvent, followed by careful mixing to ensure uniform distribution of itraconazole. Additional ingredients, such as preservatives and pH adjusters, may be added to enhance stability and self-life. The final gel formulation is packaged in airtight containers to protect it from degradation. Topical itraconazole gel provides a localized treatment for fungal infection on the skin, with the potential for improved drug delivery to affected areas. However, Healthcare practitioners should prescribe compounded itraconazole gels and assess their safety and effectiveness depending on patient-specific characteristics and the kind of infection.*

Keywords: itraconazole, topical gel, Carbopol 934p, method for topical drug delivery, Na CMC fungal infection