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Patent Search

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Abstract:

The present invention relates to a microemulgel composition comprising ketoconazole and eucalyptus oil for the treatment of fungal infection with no or minimum adverse effects such as skin irritation, pruritus, redness, blisters, allergy and dryness on the site of application, and method of preparation thereof. The composition comprises pharmaceutically acceptable carriers, excipients, stabilizers, binders and additives in a pharmaceutically acceptable levels and characterized in comprising ketoconazole, a eucalyptus oil. The composition comprises ketoconazole and eucalyptus oil in the ratio of 0.1%w/v and 1%w/v respectively. The composition of the present invention improves permeation of drug and increase antifungal efficacy of ketoconazole by using emulgel as compared to the drug release against topical marketed formulation of same drug.

Complete Specification

The present invention relates to microemulgel composition for the treatment of fungal infection and a method of preparing the same and specifically, the present invention relates to microemulgel composition comprising ketoconazole and eucalyptus oil for the treatment of fungal infection and method of preparation thereof.

BACKGROUND/PRIOR ART OF THE PRESENT INVENTION

Dermatophytes a fungal infection is one of the most common infection globally however the rate of prevalence varies from country to country. It is most common in tropical and subtropical regions due to warm and humid environments. A substantial segment of world population is affected every year. The treatment of dermatophyt caused by tinea corporis, tinea cruris, tinea faciei, and tinea pedis depends on the site of infection, extent of infection, safety of drug therapies, its efficacy, and pharmacokinetic profile. Current guidelines recommend the use of topical antifungal agents including ketoconazole as first line therapies. It is based on the fact that the topical preparations will have better safety profile due to lesser systemic absorption, target specific and can be used as adjunct to oral therapies for more extensive infection.

The drug ketoconazole is generally used to treat topical fungal infections (Dermatophytes) as creams and shampoo. This drug ketoconazole is effective against fungal infections such as tinea corporis, tinea cruris, tinea pedis, tinea versicolor and yeast infections of the skin. However, its products in the form of cream required to be applied multiple times in a day, larger surface of the skin and longer period of time due to its limited skin permeability, shorter dermatological retention and lesser efficacy. It is also found to have side effects such as irritation, pruritus, redness, blisters, etc on the site of application. It is also well known that the dermatophytosis causes dryness, pruritus, itching and

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