

Formulation and Evaluation of Antifungal Clotrimazole emulgel

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Abstract: *Clotrimazole is an imidazole derivative with a broad spectrum antimycotic activity, widely used for the treatment of Candida albicans. It acts by inhibiting biosynthesis of Ergosterol, an important component of fungal cell membranes. It is widely used for the treatment of local candidiasis, oral thrush, and vaginal yeast infections. Emulgels are emulsions, either of the oil-in-water or water-in-oil type, which are gelled by emulsion has been used widely in cosmetics and in pharmaceuticals preparations. Gel having a property to form cross linked network where it takes small drug particles and provides its release in a controlled manner. Through its mucoadhesive properties it prolongs the contact period of medication over the Emulgels have developed as one of the most intriguing topical delivery systems due to their dual release control mechanism, which includes both gel and emulsion pharmaceutical specialists are presently inquisitive about emulgel systems because of their vital potential to perform as a drug delivery vehicle by incorporating a various vary of therapeutic compounds. Characterization of clotrimazole emulgel was done by physical examination, pH determination, viscosity testing, in- vitro release study, drug content determination, swelling index. The aim of the present study was to develop an emulgel formulation of Clotrimazole using carbopol 940as a gelling agent*

Keywords: Clotrimazole, Emulgel, Antifungal, Emulsion, Carbapol