

Formulation of Film Forming Transdermal Spray Containing Fluconazole Using Full Factorial Design

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Abstract : The present investigation was undertaken to fabricate modified transport fluconazole that belongs to BCS class II and have a poor applicability on topical infection. So to improve topical application, transdermal spray could play a vital role by using ethyl cellulose and Eudragit® S100 as film-forming polymers. Concentration of Eudragit® S100, ethyl cellulose and permeation enhancer (camphor and menthol) were selected as independent variables, whereas drying time, viscosity and in-vitro drug release were selected as dependent variables in factorial design. The viscosity, drying time and in-vitro drug release of the optimize batch B15 was 40.1 cps, 47 sec. and 90.79% respectively. The film of optimized batch was flexible and dermal-adhesive.

Keywords : Eudragit, ethyl cellulose, fluconazole, transdermal spray

Conference Title : ICMPE 2014 : International Conference on Medical and Pharmaceutical Engineering

Conference Location : Los Angeles, United States

Conference Dates : September 29-30, 2014