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Stability indicating RP-HPLC method for simultaneous determination of Beclomethasone Dipropionate and Clotrimazole from dosage form

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Abstract : A simple and economical isocratic reverse phase liquid chromatographic (RP-HPLC) method for fast, effective, accurate and simultaneous determination of Beclomethasone Dipropionate and Clotrimazole has been reported. Separation was achieved using methanol and 20 mM potassium dihydrogen orthophosphate at pH 6.8 maintained with dilute orthophosphoric acid solution on Inertsil - ODS 3V column having 250 x 40 mm i.d and particle size 3 μ m with isocratic programme as eluent at a constant rate of 1.0 ml per minute. The peaks were analyzed at 254 nm. Retention time of Beclomethasone dipropionate and Clotrimazole was 3.6 and 4.5 minutes. The proposed method was validated and successfully used for estimation of Beclomethasone dipropionate and Clotrimazole.

Key words : RP-HPLC, Beclomethasone Dipropionate, Clotrimazole and Validation.

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