Abstract

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Title:	The optimalisation and validation of HPLC method for determination of triamcinolone acetonide in topical pharmaceutical product
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A novel reversed-phase high-performance liquid chromatography (RP-HPLC) method was developed and validated for the determination of active component triamcinolone acetonide, its degradation product triamcinolone and two preservatives presented in the cream – methylparaben and propylparaben, using estradiole as an internal standard.

The chromatographic separation was performed on a Supelco Discovery HSF5 column. The mobile phase for separation of all compounds consists of a mixture of acetonitrile and water (45:55 v/v). The analysis time was less than 9 minutes, at a flow rate of 0,6 ml/min and detection at 240 nm. The method was found to be appicable for routine analysis (stability tests, homogeneity) in the pharmaceutical product topical cream Triamcinolone cream 0,1%.