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Development and Validation of Parabens in Cofendyl Syrup

Ravi Muppa^{1*}, Lakshmi prasanna Muppa²

¹Aspen Pharmaceutical Limited, South Africa

²Department of Pharmacy, PRIST University

E-mail: drravimuppa@gmail.com

ABSTRACT

A new simple and rapid high performance liquid chromatography (HPLC) method was developed for the determination of methylparaben and propylparaben in Cofendyl syrup by using cosmosil C18 5 μ m, 15cm with 4.6 mm. A mixture of methanol and water of 50:50 with flow rate 1.5 ml/min was used as elutant. The eluents were detected at 254 nm. The retention times of methylparaben and propylparaben were found to be 3.243 min and 10.478 min, respectively. The proposed method was validated with precision, linearity, system suitability, specificity, accuracy and range. The optimum conditions for analysis of the drug were established. The results of analysis were validated by recovery studies. Method showed good reproducibility and recovery, this is evident from %RSD which is less than 2%. The method was found to be simple, accurate, precise and economical.

Keywords: Simultaneous estimation, HPLC, Cofendyl syrup, methylparaben and propylparaben.
