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A New Validated RP-HPLC Method For The Estimation of Diacerein In Pharmaceutical Dosage Form

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ABSTRACT

A simple, rapid and precise reverse phase high performance liquid chromatography method was developed for the analysis of Diacerein in tablet. Chromatographic separation of Diacerein was performed by using a Chromosil C_{18} column (250 x 4.6mm, 5 µm) as stationary phase with a mobile phase comprising of Methanol : Water 80:20 (v/v) at a flow rate of 0.5mL min^{-1} and UV detection wave length at 250nm and 20µL sample was injected. The retention time for Diacerein was 8.29min. The percentage RSD for precision and accuracy of the method was found to be 0.399%. Results of recovery studies are shown range 99.00-101.45%. The limit of detection for Diacerein was found to be 0.06. The recovery was calculated by standard addition method. The proposed method was found to be simple, sensitive and reproducible for the analysis of Diacerein.

Keywords: Diacerein, RP-HPLC, UV detection, Reproducible, Sensitive.