



HPLC Method Development And Validation for Estimation of Eperisone Hydrochloride from Bulk And Dosage Form

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ABSTRACT

A simple, accurate, precise and rapid reversed-phase high performance liquid chromatographic (RP-HPLC) method has been developed and subsequently validated for the estimation of Eperisone Hydrochloride in pure and tablet formulation. The proposed method is based on the estimation of drug and tablet formulation by reversed-phase mode using BDS HYPERSIL C18 (4.6mm ϕ ×250mm) analytical column. The optimized mobile phase consisted of Acetonitrile: phosphate buffer (pH 4.5) in the ratio of 70:30 v/v. Flow rate was kept at 0.8 mL min⁻¹. The estimation was carried out at detection wavelength of 255 nm. Drug- Eperisone Hydrochloride was well resolved and retained at 4.5 min. The method was statistically validated as per ICH guideline for analytical method validation. The validated method was used for estimation of Eperisone Hydrochloride from their marketed tablet formulation.

Keywords: Eperisone Hydrochloride, RP-HPLC, Validation.
