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Stability Indicating RP-HPLC Method for Simultaneous Estimation of Reserpine, Dihydralazine Sulphate and Hydrochlorothiazide in Bulk and Pharmaceutical Dosage forms

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Abstract:A simple,specific and accurate RP-HPLC method was developed for the simultaneous estimation of Reserpine, Dihydralazine sulphate and Hydrochlorothiazide in tablet dosage forms. A reversed phase PhenomenexlunaC18, 250mm × 4.6 mm, 5µm and UV-Visible detector with mobile phase consisting of Acetonitrile and buffer 70:30(v/v) were used. Empower version 2 software was used.The flow rate was 1.0ml /min and effluents were monitored at 240nm. The retentiontime forReserpine, Dihydralazine sulphate and Hydrochlorothiazide in tablet formulation were found to be 8.4min, 2.2min, and 4.7min respectively. The method was validated according to ICH guidelines for specificity, LOD, LOQ,Precision, Accuracy, Linearity, Ruggedness and Robustness. The method showed good reproducibility and recovery with %RSD less than 2.

Keywords : Reserpine ,Dihydralazine sulphate, Hydrochlorothiazide, RP-HPLC, validation as per ICH guidelines, stability indicating.

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