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RP-HPLC Method Development and Validation for Simultaneous Estimation of Cilnidipine and Bisoprolol Fumarate in Tablet Dosage Form

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Abstract : The objective of the recent study was to develop a simple, accurate and precise RP-HPLC method with subsequently validate as per ICH guidelines for the determination of Cilnidipine and Bisoprolol Fumarate using mobile phase (mixture of a Phosphate Buffer: Methanol 60:40) as the solvent. The proposed method involves the measurement of Retention time at analytical wavelength 225 nm was selected. The Retention time of Cilnidipine and Bisoprolol Fumarate was found to be 4.053 and 5.730 respectively. The linearity of the proposed method was investigated in the range of 10-30 µg/ml for Cilnidipine and 5-15 µg/ml for Bisoprolol Fumarate respectively. The method was validated for its linearity, accuracy and precision. Both inter-day and intra-day variation was found to be showing less 2 % RSD.
Keywords : RP-HPLC method, Cilnidipine, Bisoprolol Fumarate, Validation.

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