

# Development and Validation of Analytical RP HPLC Method for Benidipine Hydrochloride

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**Abstract:** *The aim of the present study is development and validation of analytical reverse phase (RP) high performance liquid chromatography (HPLC) from Benidipine Hydrochloride. HPLC method is used for quantification, identification and purification of particular analyte or compound. The developed HPLC chromatographic technique was validated based on international conference on harmonization (ICH) Q2 guidelines for accuracy, precision, linearity, range and robustness. High performance liquid chromatography technique is rapid and precise technique. Advance for the validated of Benidipine Hydrochloride in pure and tablet dosage form. Diethyl ether was extracted from plasma in the presence of 5M NaOH (Sodium Hydroxide) Diethyl ether is used as internal standard like Benidipine and Benidipine d5. Benidipine is dihydropyridine calcium channel blocker, which is used in the treatment of hypertension and angina pectoris and is used to examine the efficacy and safety of therapy with Benidipine in elderly hypertensive patients.*

**Keywords:** High performance liquid chromatography (HPLC), International conference harmonization (ICH), Benidipine hydrochloride, validation, calcium channel blocker, hypertension, angina pectoris.

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