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Method Development and Validation of Azelnidipine By RP-HPLC

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Abstract: The objective of this work is to develop a rapid, precise, accurate and sensitive reverse phase liquid chromatographic method for the estimation of azelnidipine in the plasma of rat animal model studies for transdermal drug delivery. The chromatographic method was standardized for azelnidipine using Shimadzu HPLC model reverse phase analytical inspire C18 column (250 mm x 4.5 mm, 5 µm particle size) with LC10AD pump and SPD-10A UV-Detector, The mobile phase consists of75:25 methanol: waterand 0.1%glacial acetic acid, wave length at 254nm, with flow rate of 1ml/min. The retention time of azelnidipine found to be 6.130 min. The method was statistically validated and %RSD was found to be less than 2 indicating high degree of accuracy and precision. Hence this is proposed method can be successfully applied for the estimation of azelnidipine in various dosage forms and animal model *in –vivo*studies.

Keywords: Azelnidipine, Chromatogram, Validation, Linearity.

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