International Journal of ChemTech Research
CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.11 No.02, pp 228-239, 2018

RP-HPLC Method Development and Validation for Determination of an Antihypertensive Agent

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Abstract : A simple, accurate, precise, sensitive and reproducible RP-High performance liquid chromatographic method was developed for simultaneous determination of Ramipril and Felodipine in pharmaceutical dosage form. A column having 150×3.9mm with mobile phase Methanol:Water was used and the flow rate was 0.9ml/min. The detection of analyte was performed by using U.V detector at wavelength 243nm. The percentage recovery was found within the limit range 99 to 102 %. The regression coefficient of (R^2) Ramipril and Felodipine was 0.9993 and 0.9996 respectively over the working concentration range of 10-50 µg/ml. The method was further validated with respect to linearity, accuracy, precision and robustness according to ICH guideline.

Key-words : RP-HPLC, Cardiovascular agents, Anti-hypertensive agents, Ramipril, Felodipine.

Ashish A. Gawai *et al* /International Journal of ChemTech Research, 2018,11(02): 228-239

DOI= http://dx.doi.org/10.20902/IJCTR.2018.110228

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