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Research Article

Validation and stability studies of developed HPLC method for estimation of amlodipine and perindopril in bulk and pharmaceutical dosage form

Corresponding Author:

jkjagadeeshkumare@gmail.com

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ABSTRACT

A HPLC method has been developed for simultaneous

estimation of Amlodipine and Perindopril using Hiber Purosper 150 x 4.6 mm, 5, mobile phase Buffer and Acetonitrile (65:35), detection wavelength at 211 nm, at flow rate of 0.8 ml/min at retention time 4.5min for Amlodipine and Perindopril. The HPLC method developed was validated by performing the various method validation parameters like LOD, LOQ, linearity and range, precision, specificity, accuracy, robustness and system suitability parameters. Since the HPLC method has been developed, validation of method by using various parameters was performed to ensure that the performance characteristic of the method meets the requirements for the intended analytical applications. Amlodipine and Perindopril are used to treat hypertension and coronary artery disease. Perindopril also used in congestive heart failure, to prevent diabetic nephropathy.

Keywords: Calcium channel blocker, home blood pressure, left ventricular hypertrophy, Amlodipine, coronary artery disease, cost effectiveness, Perindopril and diabetic nephropathy.

- ¹ Assistant Professor, ² Professor, ¹² Dept., of Chemistry,
- ¹ Christu Jyothi Institute of Technology and Sciences,
- ¹ Affiliations: NBA, NAAC & JNTUH, Jangaon, Warangal, Telangana 506 167.
- ² Kakatiya University, Warangal, Telangana, India 506 009.

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¹ Jagadeesh Kumar Ega and ² Ravinder Vadde *