

Validated RP-HPLC Method for the Simultaneous Determination of Amlodipine Besylate, Valsartan, and Hydrochlorothiazide in Bulk and in Pharmaceutical Formulation

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Summary. A reverse-phase high-performance liquid chromatographic (RP-HPLC) method was developed for the simultaneous estimation of amlodipine besylate (AMB), valsartan (VAL), and hydrochlorothiazide (HCT) in pharmaceutical formulation using RP-C₁₈ column. The mobile phase (acetonitrile:methanol:50 mM phosphate buffer adjusted to pH 3 with orthophosphoric acid) was pumped at a flow rate of 1.0 mL min⁻¹ in the ratio of 20:50:30% v/v and the eluents were monitored at 239 nm. Linearity was obtained in the concentration range of 0.5–5 µg mL⁻¹ for AMB, 4–40 µg mL⁻¹ for VAL, and 1–10 µg mL⁻¹ for HCT. The method was validated as per International Conference on Harmonization (ICH) guidelines and statistically. The method was validated for accuracy and precision. For precision, the coefficient of variance (COV) was found to be 0.3794, 0.1703 and 0.0578, and for accuracy, it was found to be 0.6351, 0.7688 and 1.1305 for AMB, VAL, and HCT, respectively. The COV values for all the drugs were found to be less than 2%, indicating high degree of precision and accuracy of the proposed high-performance liquid chromatographic (HPLC) method. Owing to its simplicity, rapidness, high precision and accuracy, the proposed HPLC method can be applied for determining AMB, VAL, and HCT in bulk and in pharmaceutical dosage form.

Key Words: amlodipine besylate, valsartan, hydrochlorothiazide, RP-HPLC

Introduction

Amlodipine besylate (AMB), 2-[(2-aminoethoxy)-methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridine dicarboxylic acid 3-ethyl-5-methyl ester, benzenesulfonate, is a potent dihydro calcium channel blocker [1]. Various analytical methods have been reported for the assay of AMB alone or in combination with other anti-hypertensive agents in pharmaceutical formulations. They include UV spectroscopy [2–4], high-performance liquid chromatography (HPLC) [5–8], high-performance thin-layer chromatography (HPTLC) [9, 10], LC-MS [11] and LC-MS/MS [12].

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Prof. of Drug Substances, Excipients and Related Methodology Abdulrahman Al-Majed,2021-01-16 Profiles of Drug Substances Excipients and Related Methodology Volume 46 contains comprehensive profiles of five drug compounds Darunavir Bisoprolol Betaxolol Rabeprazole and Irbesartan In addition the work contains a chapter reviewing Bioassay Methods and Their Applications in Herbal Drug Research The comprehensive reviews in the book cover all aspects of drug development and the formulation of drugs helping readers understand how the drug development community remains essential to all phases of pharmaceutical development In addition this work answers why such profiles are of immeasurable importance to workers in the field The scope of the Profiles series encompasses review articles and database compilations that fall within one or more of the following five broad categories Physical Profiles of Drug Substances and Excipients Analytical Profiles of Drug Substances and Excipients ADME Profiles of Drug Substances and Excipients Methodology Related to the Characterization of Drug Substances and Excipients and Methods of Chemical Synthesis Contains contributions from leading authorities Presents an excellent overview on the physical chemical and biomedical properties of some regularly prescribed drugs Includes a cumulative index in each volume Profiles of Drug Substances, Excipients, and Related Methodology Harry G. Brittain,2020-03-10 Profiles of Drug Substances Excipients and Related Methodology Volume 45 presents comprehensive reviews of drug substances and additional materials with critical review chapters that summarize information related to the characterization of drug substances and excipients The series encompasses review articles with this release focusing on Azilsartan Medoxomil Piroxicam Carbetapentane Citrate Emtricitabine Etrilotinib Isotretinoin and Meloxicam Contains contributions from leading authorities Informs and updates on all the latest developments in the field of drug substances excipients and methodologies Profiles of Drug Substances, Excipients, and Related Methodology ,2026-02-26 Profiles of Drug Substances Excipients and Related Methodology Volume 51 provides comprehensive profiles of four pharmaceutical compounds Vortioxetine Rosuvastatin Calcium Perindopril and Ferulic Acid In addition it includes a review article concerning Drugs and Polymer Based Local Delivery Systems in the Treatment of Periodontal Diseases Chapters in this new release include Vortioxetine A Comprehensive Profile Rosuvastatin Calcium A Comprehensive Profile Ferulic Acid A Comprehensive Profile Perindopril A Comprehensive Profile Drugs and Polymer Based Local Delivery Systems in the Treatment of Periodontal Diseases Kinetic Exclusion Assay Technology Theory Experimental Aspects and Applications in Concentration Measurements Across Diverse Fields and more No other book series provides this essential information as promptly and pertinently Sections provide review articles and database compilations categorized into five primary domains Physical Profiles of Drug Substances and Excipients Analytical Profiles of Drug Substances and Excipients ADME Profiles of Drug Substances and Excipients Methodology Pertaining to the Characterization of Drug Substances and Excipients and Methods of Chemical Synthesis Provides the synthesis and pathways of physical or biological degradation of selected drug

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combined dosage form which is a better alternative to existing ones The developed analytical methods are simple selective accurate robust and precise with shorter analysis time for the analysis of drugs in combined pharmaceutical dosage forms All the developed HPTLC and HPLC methods have been validated as per ICH Q2 R1 guideline Developed analytical methods could boost analytical researchers to work more efficiently in the field of analytical method development and validation of Pharmaceutical dosage forms

Simultaneous Estimation of Drugs by Rp-Hplc Mukesh Maithani,2011-01 A new simple rapid selective precise and accurate isocratic RP HPLC assay has been developed for simultaneous estimation of Ciprofloxacin Hydrochloride Ofloxacin Tinidazole and Ornidazole in tablet formulations The separation was achieved by using C 18 column Phenomenax 250 x 4 6mm i d coupled with a guard column of same material in mobile phase Acetonitrile Water Tri ethylamine 25 75 The pH of mobile phase was adjusted to 6 0 0 1 with 50% ortho phosphoric acid The flow rate was 1 0 mL min 1 and the separated drugs were detected using UV detector at the wavelength of 300 nm The retention time of Ciprofloxacin Hydrochloride Ofloxacin Tinidazole and Ornidazole was noted to be 2 7 3 5 4 5 and 5 8 min respectively indicative of rather shorter analysis time The method was validated as per ICH guidelines The proposed method was found to be accurate reproducible and consistent It was successfully applied for the analysis of these drugs in marketed formulations and could be effectively used for the routine analysis of formulations containing any one of the above drugs or a combination without any alteration in the chromatographic conditions

Anais da Academia Brasileira de Ciências ,2008 **Validated Uv Spectrophotometric and Rp-Hplc Method for Two Drugs** Ankur Kothari,Sheetal Sharma,2012-08 The proposed method was quite simple and do not require any pretreatment of drugs and tedious extraction procedure The method has wider linear range Hence the data presented in the manuscript Validated UV Spectrophotometric and RP HPLC method development for the simultaneous estimation of Sitagliptin and Simvastatin in marketed Formulation demonstrate that the proposed method is linear and offer advantages of reagent availability and stability less time consumption The statistical analysis proves that the methods are reproducible and selective for the estimation of Sitagliptin and Simvastatin in marketed tablet formulation Thus it can be extended for routine analysis of Sitagliptin and Simvastatin in pharmaceutical industries hospitals and research laboratories These all process is done for the betterment of medicine so that no or less side effects occur

Medicinal & Aromatic Plants Abstracts ,2008 **Annual Report** University of Poona,2010 Journal of Scientific & Industrial Research ,2007 **Oxidized Lipids in Systemic and Lung Inflammatory Models** Kara Renee Schmelzer,2005 **Dairying in a New Global Environment** ,1994 Analisis ,1993 **Some Drugs and Herbal Products** IARC Working Group on the Evaluation of Carcinogenic Risks to Humans,International Agency for Research on Cancer,2016 This volume of the IARC Monographs provides an assessment of the carcinogenicity of 14 drugs and herbal products The IARC Monographs Working Group relied mainly on epidemiological studies to evaluate the carcinogenic hazard to humans exposed to the drugs digoxin widely prescribed for the treatment of chronic heart failure pioglitazone used for the

treatment of type 2 diabetes mellitus and hydrochlorothiazide used to treat hypertension Other agents evaluated included the drugs primidone sulfasalazine pentosan polysulfate sodium and triamterene and five herbal products or their components Aloe vera whole leaf extract goldenseal root powder Ginkgo biloba leaf extract kava extract and pulegone In view of the limited agent specific information available from epidemiological studies assessments of these agents relied mainly on carcinogenicity bioassays to reach conclusions as to the carcinogenic hazard to exposed humans *Nutrition Abstracts and Reviews* ,2006

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