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Difference Spectrophotometric Method Development and Validation For Simultaneous Estimation of Rosuvastatin Calcium and Telmisartan in Bulk and Combined Dosage Form

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ABSTRACT

Rosuvastatin calcium and Telmisartan combination is used in the treatment of coronary heart diseases. UV spectrophotometric and chromatographic methods were reported in the literature for the estimation of Rosuvastatin calcium and Telmisartan. Therefore a simple and highly sensitive difference spectrometric method for the estimation of Rosuvastatin calcium and Telmisartan in bulk and in combined dosage form is described. The proposed method is based on the principle that both the drugs can exhibit two different forms in acidic and basic medium that differs in their absorption spectra in acidic and basic medium. In the difference spectrum, Rosuvastatin calcium showed maxima at 248nm and minima at 237.5nm and Telmisartan showed maxima at 309nm and minima at 286nm. Linearity range was observed in the concentration range of 20-60µg/ml for Rosuvastatin calcium and Telmisartan. Percentage purity and recovery study were in the limit of 98-102% and precision was less than 2 for both drugs. Limit of Detection for Rosuvastatin calcium and Telmisartan were found to be 0.0635µg/ml and 0.1693µg/ml respectively. Limit of Quantitation for Rosuvastatin calcium and Telmisartan were found to be 0.1925 µg/ml and 0.5129µg/ml respectively. The proposed method can be successfully used for the analysis of pure drug and marketed formulation. The method is found to be precise, simple, accurate and can be applied for the routine estimation of Rosuvastatin calcium and Telmisartan.

KEY WORDS: Difference spectroscopy, rosuvastatin calcium, telmisartan, 0.1N hydrochloric acid, 0.1N sodium hydroxide

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Difference Spectrophotometric Method Development For The

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Frontier Technology for Water Treatment and Pollutant Removal Puangrat Kajitvichyanukul, Charongpun Musikavong, Tanapon Phenrat, 2019-11-15 Frontier technology in water treatment and pollutant removal is needed not only for maximizing water reuse but also for the rapid detection of contaminants in the recycled water. The UN announced the years 2018 to 2028 as the International Decade for Action Water for Sustainable Development. To realize this mission, innovative and frontier technologies for water treatment and pollutant removal are important components. This book aims to serve as a platform for updating the scientific community with recent progress in this area, covering frontier technologies in analytical technique, physicochemical treatment, chemical treatment, and biological treatment. In Focus, a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector. **Analytical Procedure Development by Quality by Design** Galla Rajitha, V. Ramalinga Swamy, Gireesh Kumar Eri, 2025-12-01 The Analytical Procedure Development by Quality by Design is an essential resource for anyone navigating the complex world of analytical chemistry. This comprehensive guide not only covers the fundamentals of analytical procedure development but also introduces the innovative principles of Quality by Design (QbD), revolutionizing the field. From classical to advanced techniques, this book explores a wide range of methodologies, providing readers with a thorough understanding of the subject. It delves into both Minimal and Enhanced approaches, giving readers insight into different strategies for analytical procedure development. One of the standout features of this book is its in-depth analysis of AQbD components, principles, and regulatory perspectives. With a chapter dedicated to Design of Experiments (DoE), readers will gain practical insights into how to effectively implement this method in their work. Furthermore, this book offers a detailed roadmap for QbD principles and analytical development, making it an invaluable resource for those looking to apply these concepts in their own research and projects. The book also includes practical examples in UV-Visible spectrophotometric, HPLC, GC, HPTLC, and bioanalytical methods, allowing readers to see these principles in action. With its reader-friendly elements, this book caters to a diverse audience, including students, researchers, and professionals in analytical chemistry. It provides comprehensive guidance and serves as a reliable companion for analytical procedure development and QbD understanding. In summary, the Analytical Procedure Development by Quality by Design is a must-have for anyone seeking to excel in the field of analytical chemistry. Its comprehensive coverage of analytical procedure development and QbD principles, coupled with practical examples and clear explanations, make it an indispensable resource.

- 1 Analytical Procedure Development
- 2 Analytical Quality by Design AQbD
- 3 Design of Experiments DoE
- 4 Implementation of QbD in Analytical Procedure Development
- 5 AQbD for UV-Visible spectrophotometric method development
- 6 AQbD for HPLC Method Development
- 7 AQbD for GC Method Development
- 8 AQbD for HPTLC Method Development
- 9 QbD for Bio-analytical Method Development

Nutritional analysis of different

plant parts among black pepper (Piper nigrum) varieties in Kerala: an overview Prem Jose Vazhacharickal, K.R Anilakumar, Deepthi James, 2017-11-21 Black pepper *Piper nigrum* the flowering vine belongs to the family piperaceae cultivated for its fruit which is usually dried and used as spice and seasoning The black pepper high variability was also noticed for yield contributing characters like runner shoot production holding capacity adventitious root production lateral branch habit spike length number of spikes per lateral branch fruit set dry weight Pharmacological toxicological clinical applications and general uses of pepper are bioavailability enhancement carminative anti cancer natural antioxidant black pepper as an anti Inflammatory drug cholesterol lowering and Immune enhancer anti pyretic anti periodic and rubefacient black pepper Improves digestion and promotes intestinal health preservation of the flavour content Four different pepper varieties in Kerala were selected based on a baseline survey The proximate composition includes estimation of dry matter and moisture content estimation of crude protein estimation of crude fibre estimation of crude ash and insoluble ash ether extract determination of dietary fibre gross energy analysis of component of different varieties of *Piper nigrum* were determined The sample Munthirimunda fruit has high moisture content The sample Chengannor leaf has high dry matter content The sample Chengannor leaf has high crude protein content The sample Panniyor leaf has high crude fibre content Ether Extract is high in sample Chengannor leaf The sample Munthirimunda leaf has high comparatively high Total Ash content Gross Energy is high in sample Panniyor fruit A wide gap in the nutritional properties of *Piper nigrum* varieties exist in Kerala which could be further explored

Quantitative Chemical Analysis, Sixth Edition Daniel C. Harris, 2003 For instructors who wish to focus on practical industrial or research chemistry Includes case studies applications boxes and spreadsheet applications

Profiles of Drug Substances, Excipients and Related Methodology, 2015-06-05 Volumes in this widely revered series present comprehensive reviews of drug substances and additional materials with critical review chapters that summarize information related to the characterization of drug substances and excipients This organizational structure meets the needs of the pharmaceutical community and allows for the development of a timely vehicle for publishing review materials on this topic The scope of the Profiles series encompasses review articles and database compilations that fall within one of the following six broad categories Physical profiles of drug substances and excipients Analytical profiles of drug substances and excipients Drug metabolism and pharmacokinetic profiles of drug substances and excipients Methodology related to the characterization of drug substances and excipients Methods of chemical synthesis and Reviews of the uses and applications for individual drug substances classes of drug substances or excipients Contributions from leading authorities Informs and updates on all the latest developments in the field

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Review of Scientific Instruments, 1927 Treatise on Analytical Chemistry: Analytical chemistry of the elements (Analytical chemistry of inorganic and organic compounds) v Izaak Maurits Kolthoff, Philip J. Elving, 1961 **Development and Validation of Differential Spectrophotometric Method for Assay of Enrofloxacin in Bulk and Tablet Formulation** M. Patel, 2023-12-12 Research Paper postgraduate from the year 2019 in the subject Medicine Pharmacology Pharmacy course M pharmacy language English abstract A simple precise and accurate spectrophotometric method have been developed and validated for the estimation of Enrofloxacin in bulk as well as tablet formulation The UV spectra of Enrofloxacin was obtained in 0.1N HCl and 0.1N NaOH and the overlain spectra showed maximum absorbance at 271.0 nm maxima and 276.5 nm minima in 0.1N NaOH and HCl respectively The drug follows linearity in the range of 5.30 g/ml R² 0.988 Both intra and inter day precision showed % RSD 2 while LOD and LOQ were 0.320 and 0.971 respectively The method was validated as per ICH guidelines Enrofloxacin or 1 cyclopropyl 6 fluoro 7.4 ethyl 1 piperazinyl 1.4 dihydro 4 oxo 3 quinoline carboxylic acid The chemical structure of the drug is given in It is a synthetic antibacterial agent from the class of the fluoroquinolone carboxylic acid derivatives It has antibacterial activity against a broad spectrum of Gram negative and Gram positive bacteria Enrofloxacin is used for the treatment of individual pets and domestic animals Literature survey shows that several analytical methods for the determination of Enrofloxacin include RP HPLC HPLC RP LC LC and dissolution study have been reported Many pharmaceutical products have been assayed by this method But Differential UV spectrophotometric method of Enrofloxacin was not reported as so far So an attempt was made to develop a novel simple accurate spectrophotometric method for the determination of Enrofloxacin in tablet formulation Treatise on Analytical Chemistry Izaak Maurits Kolthoff, Philip J. Elving, 1961 *Journal of the Optical Society of America* Optical Society of America, 1921 Separately paged supplements accompany a few issues *American Journal of Physiology*, 1925 Vols for 1898 1941 1948 56 include the Society's proceedings primarily abstracts of papers presented at the 10th 53rd annual meetings and the 1948 56 fall meetings *Journal of Applied Chemistry of the USSR.*, 1960 **Nuclear Science Abstracts**, 1972-04 **Collected Reprints from the George Williams Hooper Foundation for Medical Research** George Williams Hooper Foundation for Medical Research, 1920 Reprints from various medical and scientific periodicals **Water & Sewage Works**, 1972 Vols 76 include Reference and data section for 1929 1929 called Water works and sewerage data section

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