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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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- 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

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Toxicological Profile for 2,4,6-trinitrotoluene, 1995

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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

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