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DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR ESTIMATION OF DRUGS IN COMBINATION DOSAGE FORM

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ABSTRACT:-

Highly specific sensitive analytical technique hold the key to the design, development, standardization and quality control of medicinal product. Reverse phase chromatography refer to the use of polar mobile phase with non-polar mobile phase. HPLC is always used in injection with another analytical tools for quantitative and qualitative analysis. The chromatographic method were developed and validated for the simultaneous determination of Mometasone furoate (MF) and Formoterol fumarate (FF). The high performance liquid chromatographic method for the separation and determination of MF and FF using reversed phase C18 column. The mobile phase composed of Methanol: water (90:10) (0.05% OPA) at a flaw rate of 0.07ml/min. The quantitation was achieved with UV detection at 273nm. Combination of MO and FF is used for treatment of asthma in patient suffering from reversible obstructive airway disease. The method was found to be better because of its less retention time, isocratic mode and use of economical readily available mobile phase, readily available column, UV detection and better resolution of peaks.

KEYWORDS: HPLC, C18 column, methanol, water, UV detector, asthma disease, isocratic mode.

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