



Research Article

A Validated reverse phase HPLC method for simultaneous determination of telmisartan and ramipril as bulk drug and in tablet dosage form

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ABSTRACT

A simple, accurate and sensitive validated Reverse Phase HPLC method for simultaneous determination of two-component drug mixture of Telmisartan and Ramipril in combined tablet dosage form has been developed and validated. RP-HPLC separation of drugs was carried out on Jasco HPLC system with HQ-SiL C₈ column (250 mm × 4.6 mm I.d.), using Acetonitrile: 0.01 M 1-Heptane sulphonic acid sodium salt (pH 2.8) (60: 40, v/v) as mobile phase. Method was developed using phenylpropranolamine hydrochloride as internal standard and detection was carried out using UV detector at 216 nm. Telmisartan and Ramipril obeyed Beer's law in the concentration range of 10-50 µg/ml and 2.5-12.5 µg/ml, respectively. The method has been successfully applied for the analysis of drugs in pharmaceutical formulation. Results of analysis were validated statistically and by recovery studies.

Key words: Telmisartan, Ramipril, Phenylpropranolamine Hydrochloride, RP-HPLC, Tablet dosage form

INTRODUCTION

Telmisartan, (TELMD), 4' [(1, 4'-dimethyl-2'-propyl [2, 6'-bi-benzimidazol]-1'-yl) methyl] [1,1'-biphenyl]-2-carboxylic acid) used in the treatment of hypertension is a selective AT₁ subtype

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