

RP- HPLC Method Development and Validation for Simultaneous Estimation for Metformin and Sitagliptin in Bulk and Tablet Formulation

Sudhir Adsul^{1*}, J. S. Bidkar², Sunil Harer³, G. Y. Dama⁴

¹Department of Quality Assurance Technique, Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra, India.

²Department of Pharmacognosy, Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra, India.

³Department of Pharmaceutical Chemistry, Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra, India.

⁴Department of Pharmacognosy, Sharadchandra Pawar College of Pharmacy, Otur, Pune, Maharashtra, India.

Abstract : RP- HPLC method have been Development and Validation For Simultaneous Estimation for Metformin And Sitagliptin in Bulk and Tablet Formulation was developed using Grace C18 column(250nm x 4.6ID, Particle size: 5 Micron) as stationary phase and methanol : HPLC grade water (80:20%v/v, pH3.0) as mobile phase was maintained at a flow rate of 0.8ml/min, the retention time of Metformin And Sitagliptin were found to be 6.19 min and 7.42 min and detection was carried out at 254nm. The high recovery and low coefficients of variation confirm the suitability of the method for simultaneous analysis of the Sitagliptin and Metformin in bulk and tablet Formulation. The validated method was successfully used for quantitative analysis of Janumet tablet.

Key Words : Metformin, Sitagliptin, Spectrophotometric Method, RP-HPLC.

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