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Development and validation of HPTLC method for the analysis of Olmutinib in Bulk drug

Balu S. Khandare[1]

[1]Kasturi Shikshan Sanstha College of Pharmacy Shikrapur Pune, Maharashtra, India-412208

Abstract : This paper describes a simple, precise, rapid and accurate high- performance thin layer chromatographic (HPTLC) method for determination of Olmutinib in bulk drug. Chroma to graphic separation was per formed on aluminium plates precoated with silicagel60F_{254} as the stationary phase using solvent system consisted of chloro form: methanol: (9:1v/v). After the application of bands using CAMAG Automatic TLC Sampler 4, the plate was developed in the solvent system up to 70 mm in CAMAGT win Trough Chamber. This solvent system was found to give compact spot for Olmutinib with Rfvalue of 0.32±0.02. The spots were scanned at 267.68nm. The calibration curves were linear with co-relation coefficient of 0.995 for Olmutinib. Linear regression analysis showed good linearity in the concentration range of 100-1100 ng per spot. The method was validated in terms of Precision, specificity, and Linearity. The average recovery of the standards in the samples was found to be 99.65% at the same time we have checked the C.V. values of Reproducibility, intra-day and inter-day tabulated further. The proposed method can be successfully applied to determine the drug content of bulk drug.
Keyword : HPTLC, Olmutinib, silica gel, Linearity, Specificity, Precision.

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