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Research Paper

RP- HPLC Method for Simultaneous Estimation of Telmisartan and Amlodipine besylate in pharmaceutical tablet dosage form

GUPTA N.K*[1], BABU A.M[2] AND GUPTA PRAMILA[3]

*[1]Department of Pharmaceutical Sciences, NIMS University. Jaipur -302004.India.

[2]School of Pharmacy and Health science. International medical university, Kuala Lumpur-57000. Malaysia.

[3]M.S.J.Govt. College, Bharatpur-321001. Rajasthan.

ABSTRACT

The chromatographic analysis was performed by Hypersil BDS C18 ,250 × 4.6 mm, 5 µ particle size with mobile phase consisting of acetonitrile and phosphate buffer (pH 3.0) in the ratio of 60:40 v/v, at a flow rate of 1.5 ml/min and eluents monitored at 237 nm. The method was validated for linearity, accuracy, precision, robustness and application for assay as per ICH guidelines. The retention times of amlodipine besylate and telmisartan were 5.884 and 10.987 min, respectively. The calibration curves of peak area versus concentration, which was linear from 8-48 µg/ml for telmisartan and 1-6 µg/ml for amlodipine besylate, had regression coefficient (r^2) greater than 0.999. The method had the requisite accuracy, precision, and robustness for simultaneous determination of telmisartan and amlodipine besylate in tablets. The proposed method is simple, economical, accurate and precise, and could be successfully employed in routine quality control for the simultaneous analysis of telmisartan and amlodipine besylate in tablets.

Keywords: TLM (Telmisartan,), AML (Amlodipine besylate), RP-HPLC (Reverse phase –High performance liquid chromatography), ICH (International Conference on Harmonization).

***Address for correspondence**

nirmalgupta1712@rediffmail.com

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