CONFERENCE ABSTRACT

ISSN (O): 2349-5332
CODEN: IRJPHY

RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF TENELIGLIPTIN AND METFORMIN IN PHARMACEUTICAL DOSAGE FORMS

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ABSTRACT:

RP-HPLC method was studied to develop and validate a simple, rapid and reproducible gradient high performance reverse phase liquid chromatography method for the estimation of Teneligliptin and Metformin in bulk drug sample and pharmaceutical dosage forms using Cosmosil (C18, 250X4.6mm, 5µm) column with mobile phase composition of methanol and water (pH 3.5) 50:50 v/v. Flow rate of 0.7ml/min and UV detection at 242nm was maintain during the entire study. Teneligliptin (TEN) is a novel drug, used for the treatment of type 2 diabetes mellites. The retention time for Metformin and Teneligliptin was found to be 2.45 min and 6.21 min respectively. Linearity was observed over concentration range of 2-10µg/ml and 50-250 µg/ml for Teneligliptin and Metformin respectively. The accuracy of the proposed method was determined by recovery studies and found to be 98-101%. The proposed method was validated and results conformed to ICH parameters.

KEYWORD: RP- HPLC Methods, Validation, Teneligliptin, Metfomin.

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Indian Research Journal of Pharmacy and Science; 19(2018)1733;
Journal Home Page: https://www.irjps.in