

Research Paper

ELABORATE AND VALIDATION OF ANALYTICAL METHOD FOR COMBINATION OF ANTI- DIABETIC DRUGS IN PHARMACOKINETIC STUDIES

Dinesh Kumar Sharm*a, Mukesh Bansal, Gaurav Bhaduka, Dilip Agrawal

*Research Scholar, Mahatma Gandhi College of Pharmaceutical Sciences, Jaipur, Rajasthan

RP-HPLC analytical, and bio-analytical methods, developed for determination of SAXA and GLIM was found to be linear, accurate, precise, robust, suitable, sensitive, and specific, as per the regulatory guidelines. Both the methods involved simple and simultaneous estimation of SAXA and GLIM with gradient elution, and separations were performed at ambient temperature. The analytical method was used to determine the SAXA, and GLIM, simultaneously in tablet formulation, as well as in the dissolution study. All the ingredients of tablet formulation were not affecting the peaks of SAXA, and GLIM, which reflects specificity of developed method. The bio- analytical method was used to determine the SAXA and GLIM, simultaneously in rat plasma for during pharmacokinetic analysis. The plasma components did not interfere with the peaks of SAXA, and GLIM, and hence confirmed the specificity of the developed method.

Key Words: RP-HPLC, SAXA, GLIM, Bio-analytical method

www.pharmaerudition.org May. 2024, 14(1), 1-18