

www.innpharmacotherapy.com

21331N. 2321-323A

Original Article

Development and Characterization of Bilayer Tablets Containing Metformin Hydrochloride in Sustained Release Layer and Atorvastatin Calcium in Immediate Release Layer

Rajesh Sahota, Gursimran Singh, Puneet Mankoo, Rupinder Kaur, Sukhdev Singh, Meenu Nagpal, Upendra K Jain, Shelly Kamboj, Mandeep Sharma*

Pharmaceutics division, Chandigarh College of Pharmacy, Landran, Mohali, Punjab – 140307 India

Abstract

Diabetes, being one of the most prevalent disease in India, accounts for several other complications like development of atherosclerosis, hypertension and many other physiological complications which cannot be treated using single drug therapy. The low compliance and high cost are the major hindrance blocks for multiple drug therapy. The main aim of present work is to develop an optimized bilayer tablets of metformin hydrochloride and atorvastatin calcium for overcoming the problem associated with multiple drug therapy. The prepared tablets were evaluated for uniformity of weight, friability and drug release characteristics. The stability studies revealed that developed tablet can be stored at room temperature.

Keywords: Bilayer tablet, diabetes, optimization, multiple drug therapy .

*Corresponding Author: Mandeep Sharma, Chandigarh College of Pharmacy, Landran, Mohali- 140307 Email: sankhyanmandeep@gmail.com