Research Paper

FORMULATION AND EVALUATION OF FILM COATED TABLET CONTAINING AMLODIPINE

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The main objective of this combination therapy is to develop a stable formulation of antihypertensive drugs of telmisartan and amlodipine besylate as an immediate release bilayer tablet and evaluate their pre- compression and post-compression parameters. The FT-IR studies were also conducted and were found to have no interaction between drug and the excipients. The formulation of the developed work was initiated with wet granulation method for both the drugs. Microcrystalline cellulose pH102 and dibasic calcium phosphate were used as diluents. Starch paste was used as the binder. The croscarmellose sodium (CCS) was used as the super disintegrant. Magnesium stearate used as lubricant. The prepared granules were compressed by a double-rotary compression machine. *In vitro* dissolution was carried out using USP dissolution apparatus type 2 (paddle) by using HPLC method. The stability studies for optimized batch were carried out at 30 and 60 days and were found to be stable. The results suggest the feasibility of developing bilayer tablets with drugs amlodipine besylate for the convenience of patients with severe hypertension, especially when monotherapy fails to control the blood pressure.

Key Words: amlodipine besylate,, hypertension, immediate release, *in vitro.*

www.pharmaerudition.org Feb. 2022, 11(4), 01-10