Scienxt Journal of Pharmaceutical Sciences
Volume-1 || Issue-2 || Year-2023 || July-Dec || pp. 31-42

Comparative study of in-vitro parameters of branded, generic and in-house formulation containing selected drugs

Ganesh Hebbar *
Department of Pharmaceutics,
National College of Pharmacy, Shivamogga. Karnataka, India
Email: ganeshhebbar1995@gmail.com

Abstract:

The combination of Ornidazole and Ofloxacin as tablet is an oral antiprotozoal and has marked antibacterial and antimicrobial properties. The aim of the present study was to formulate the above combination and study the post compression and evaluation parameters with that of branded and generic tablet combination. Tablets of ornidazole and ofloxacin were prepared by wet granulation method. Starch, lactose, magnesium stearate and talc were utilized as excipients for the preparation. After constructing calibration curve, the *in vitro* drug release studies were carried out using USP type II apparatus at 50 rpm. All the tablets formulations were evaluated for post compression parameters like friability, hardness, weight variation, *in vitro* disintegration. All the test results were found to be within the prescribed limits. The drug release from the branded, generic, and self-prepared formulations were found to be 103.5±0.10 %, 100.12±0.10 %, 99.56±0.19 % and 99.71±0.08 %, 101.76±0.08 %, 102.78±.0.12 % for ornidazole and ofloxacin respectively. *In vitro* dissolution study results reveals that there was no significant difference between the drug release profiles of all the formulation. In conclusion, all tablet formulations had good hardness. All the tablet formulations could immediate release for over 30 minutes.

Keywords:

Ornidazole, Ofloxacin, brand, generic, *in vitro* drug release.