

2nd International Conference

Organized By

Ambe Durga Education Society's

Dadasaheb Balpande College of Pharmacy

(Degree and Diploma),

Near Swami Samarth Dham Mandir, Besa,
Nagpur-440037, Maharashtra, India.

**on 14th and 15th
February 2020**

Theme:

**"Invigorating Research in
Pharmaceuticals:
Reasonable Industrial Approach"**

Venue: Hotel RE-GEN-TA,
CENTRAL Nagpur.
Jagnade Square,
Nandanvan, Nagpur,
Maharashtra, India.

Souvenir and Abstract Book

*"An event that is full of potentials to learn the latest trends in the
Pharma industry and to learn about the business culture."*



National Assessment and Accreditation Council
An Autonomous Institution of the University Grants Commission
राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान



FORMULATION AND EVALUATION VALSARTAN FAST DISINTEGRATING TABLET

Meshram Nirnaya S., Thakare Vinod M., Borole Ashvini C.

Dadasaheb Balpande College of Pharmacy, Besa, Nagpur- 440037

nirnayameshram@gmail.com

ABSTRACT

To develop orodispersible tablet of Valsartan by using natural and synthetic superdisintegrant. Cordia dichotoma fruits were collected from Maharashtra region (India) in the month of June. Isolation of gum from Cordia dichotoma fruit, The identification characteristics of drug are performed and all the parameters were observed satisfactory. Direct compression technique was used, microcrystalline cellulose PH 102(MCC) was used as a diluent, sodium starch glycolate (SSG), and crospovidone(CP) were used as synthetic superdisintegrants, Cordia dichotoma gum was used as natural superdisintegrant, talc was used as flow promoter magnesium stearate was used as lubricant, aspartate as sweetener and vanilla flavour was used to improve mouth feel. The results obtained by FTIR and DSC studies revealed that there was no chemical interaction between the pure drug and excipients. Direct compression method was employed to formulate the tablets, the pre-compression and post compression parameter study was determined formulations. The final optimized formulations of Valsartan tablets containing 7.5% Cordia dichotoma gum was compared with marked conventional tablets of valsartan (Valtan) and the results revealed that formulated fast dissolving tablets of Valsartan were effective and better to meet with official compliances. The concept of formulating orodispersible tablets containing Valsartan offers a suitable, practical approach to achieve fast release of the drug. Gives fast release and meets its aim and objectives.

Keywords Valsartan, Orodispersible tablets, Chordiadichotoma

FORMULATION AND EVALUATION OF THEOPHYLLINE FLOATING TABLET

Bamba Sakshi¹, Sharma Ravindrakumar², Kawitkwar P.S. ¹, Thakare Vinod¹, Patil V. R. ²

¹. Dadasaheb Balpande College of Pharmacy, Besa, Nagpur, MS, India

². TVES's HLMC College of Pharmacy, Faizpur, MS, India. sakshi.bambal@gmail.com

ABSTRACT

To develop gastric floating drug delivery system containing Theophylline Anhydrous and evaluation of the same. The floating behavior, which showed floating lag time 1- 2 min and total floating time more than 12 hrs. In-vitro drug release study was performed in 1.2 pH buffer. In formulation FT1-FT4, this contained carbopol, as concentration of polymer (HPMC K15 and HPMC K100) increase simultaneous weight of tablet and hence increases in swelling percentage. In this study the maximum percentage observed in FT3 and formulation FT5-FT8 showed minimum swelling percentage. All the formulations showed increase in swelling indices for 9-12 hrs. Formulation without carbopol showed drug release in 9-11 hrs. Formulation with high polymer content (FT6) extended drug release up to 11 hrs. The above result demonstrate that the theophylline anhydrous reducing dosing frequency and thus increasing patient compliance.

Keywords Theophylline, Floating tablet, Carbopol, HPMC K15, HPMC K100, Drug release