

# Formulation, Development and Evaluation of Sustained Release Matrix tablets of Ropinirole HCl.

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## ABSTRACT

The objective of this research work is to develop sustained release tablets of Ropinirole HCl using different hydrophilic polymers like Polyox WSR303 and HPMC K100M by direct compression technique. The granules were evaluated for angle of repose, bulk density, tapped density, compressibility index and Hausner ratio. The tablets were subjected to thickness, hardness, friability, weight variations, and *in vitro* dissolution studies. The drug release from Ropinirole HCl sustained release tablets was carried out in 1.2 N HCl, and 6.8 pH phosphate buffer for 24hrs.F12 batch showed expected result and considered as optimized batch. The study clears that when Polyox WSR303 & HPMC K100M used separately sustained drug release upto 20 Hrs. but, when used in combination it retards drug release upto24 Hrs. So, it can be concluded that when both Polyox WSR303 & HPMC K100M are used in combination increases sustained action than using separately.

## 1. INTRODUCTION<sup>(1,13,14)</sup>

Oral drug delivery is the most widely utilized route of administration among all the routes nasal, ophthalmic, rectal, transdermal and Parental routes that have been explored for systemic delivery of drugs via pharmaceutical products of different dosage form. Oral route is considered most natural, uncomplicated, convenient and safe in respect to parenteral route due to its ease of administration, patient acceptance and cost effective manufacturing process.<sup>(11)</sup>

### 1.1 MODIFIED RELEASE ORAL DRUG DELIVERY SYSTEM<sup>(12)</sup>

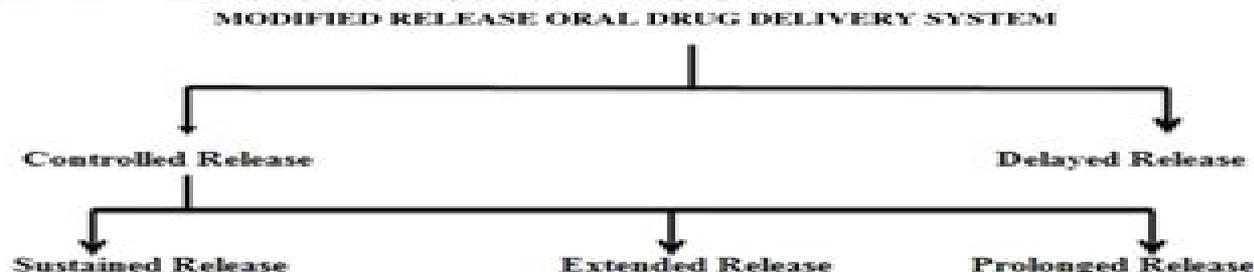


Fig. 1: Classification of modified release drug delivery system.

### MODIFIED RELEASE DRUG DELIVERY SYSTEM<sup>(15,4,14,16)</sup>

- **Extended release system:** The drug delivery system that allows at least two folds reduction in dosage frequency as compared to that drug presented as an immediate release system.
- **Sustained release systems:** It includes any drug delivery system that achieves slow release of drugs over an extended period of time not particularly at pre-determined rate.
- **Controlled release system:** It includes any drug delivery system from which the drug is delivered at a predetermined rate over a long period of time.
- **Prolonged release system:** It is designed to release the drug slowly and to provide a continuous supply of drug over an extended period.
- **Delayed release system:** This are the system which designed to release a discrete portion of drug at a time or other than promptly after administration, although one portion may be release promptly after administration of dosage form.

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