



## FORMULATION DEVELOPMENT OF SUSTAINED RELEASE ANTIULCER DRUG AND STUDY OF PRE-FORMULATION PARAMETERS AND ITS CHARACTERIZATION

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### Abstract

The aim of present study was to formulate and developed sustained release tablets of Nizatidine (220 mg) by varying concentration of polymers like chitosan, Kollidon SR and HPMC K100M by wet granulation technique. The pre-formulation parameters were studied like melting point of drug, FTIR study and DSC analysis of drug. Various pre-compression parameters were evaluated like Bulk density, Tapped Density, Carr' Index, Angle of repose. This study revealed the idea about how the concentration of polymers affects pre-compression parameters of the drug formulation.

**Keywords:** Sustained Release, Antiulcer, Nizatidine, Pre-formulation, characterization

### Introduction

The drug release time or rate of medications in modified-release dosage forms can be altered. The most popular method of administration is oral drug delivery, out of all the channels that have been investigated for systemic drug delivery via pharmaceutical products of various dose forms: ophthalmic, rectal, nasal, transdermal, and parenteral.<sup>1</sup>

There have been medication items on the market for a long time that is intended to lower dosage frequency by accelerating drug absorption. Drug release from controlled-release drug delivery systems (CRDDS) is regulated, predictable, and occurs at a predetermined rate. In order to guarantee continued absorption of the released drug, as illustrated in figure 1 below, it is imperative that the drug have good absorption throughout the gastrointestinal tract, preferably by passive-diffusion.<sup>2,3</sup>

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