



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.¹

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.^{2,3}

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**Edmund S. Kostewicz, Maria
Vertzoni, Heather A. E. Benson, Michael
S. Roberts**

Research Article Formulation And Development Of Sustained:

Developing Solid Oral Dosage Forms Yihong Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lirong Liu, William Porter, 2009-03-10
Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms. It covers essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, as well as various aspects of state-of-the-art techniques and approaches in pharmaceutical sciences and technologies, along with examples and/or case studies in product development. The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development. The specific goals are to provide readers with Basics of modern theories of physical pharmacy, biopharmaceutics, and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms. Tools and approaches of preformulation, investigation, formulation process, design, characterization, and scale-up in pharmaceutical sciences and technologies. New developments, challenges, trends, opportunities, intellectual property issues, and regulations in solid product development. The first book ever that provides comprehensive and in-depth coverage of what is required for developing high-quality pharmaceutical products to meet international standards. It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market, including the most updated science and technologies, practice applications, regulation, intellectual property protection, and new development trends, with case studies in every chapter. A strong team of more than 50 well-established authors, co-authors of diverse background, knowledge, skills, and experience from industry, academia, and regulatory agencies.

Oral Drug Delivery for Modified Release Formulations Edmund S. Kostewicz, Maria Vertzoni, Heather A. E. Benson, Michael S. Roberts, 2022-04-26
ORAL DRUG DELIVERY FOR MODIFIED RELEASE FORMULATIONS Provides pharmaceutical development scientists with a detailed reference guide for the development of MR formulations. *Oral Drug Delivery for Modified Release Formulations* is an up-to-date review of the key aspects of oral absorption from modified release MR dosage forms. This edited volume provides in-depth coverage of the physiological factors that influence drug release and of the design and evaluation of MR formulations. Divided into three sections, the book begins by describing the gastrointestinal tract (GIT) and detailing the conditions and absorption processes occurring in the GIT that determine a formulation's oral bioavailability. The second section explores the design of modified release formulations, covering early drug substance testing, the biopharmaceutics classification system, an array of formulation technologies that can be used for MR dosage forms, and more. The final section focuses on in vitro, in silico, and in vivo evaluation and regulatory considerations for MR formulations. Topics include biorelevant dissolution testing, preclinical evaluation, and physiologically based pharmacokinetic modelling (PBPK) of in vivo behaviour. Featuring contributions from leading researchers with expertise in the different aspects of MR formulations, this volume provides authoritative coverage of physiology, physicochemical determinants, and in vitro/in vivo correlation (IVIVC). Explains the different types of MR formulations and defines the key terms.

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Natural Polymers for Pharmaceutical Applications Amit Kumar Nayak, Md Saquib Hasnain, Dilipkumar Pal, 2019-10-16 This new volume Natural Polymers for Pharmaceutical Applications Volume 1 Plant Derived Polymers presents some of the latest research on the applications of natural polymers in drug delivery and therapeutics for healthcare benefits Polymers and their applications from several plants are discussed in depth including tamarind gum gum Arabic natural carbohydrate polymer gum tragacanth pectin guar gum and its derivatives locust bean gum sterculia gum okra gum and others The use of the polymers derived from plants as potential pharmaceutical excipients is expanding day by day because of their stability in the biological system drug releasing capability drug targeting abilities as well as their bioavailability

Alginates Md Saquib Hasnain, Amit Kumar Nayak, 2019-04-01 This new volume explores the latest research on the use of alginate as a biopolymer in various biomedical applications and therapeutics The uses of alginates and modified alginates discussed in this book include tissue regeneration encapsulation and delivery of drugs nucleic acid materials proteins and peptides genes herbal therapeutic agents nutraceuticals and more This book also describes the synthesis and characterizations of various alginate and modified alginate systems such as hydrogels gels composites nanoparticles scaffolds etc used for the biomedical applications and therapeutics Alginate a biopolymer of natural origin is of immense interest for its variety of applications in pharmaceuticals as medical diagnostic aids and in materials science It is the one of the most abundant natural biopolymers and is considered an excellent excipient because of its non toxic stable and biodegradable properties Several research innovations have been made on applications of alginate in drug delivery and biomedicines There needs to be a thorough understanding of the synthesis purification and characterization of alginates and its derivatives for their utility in healthcare fields and this volume offers an abundance of information toward that end

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and harness the potential of alginates this book presents a thorough understanding of the synthesis purification and characterization of alginates and their derivative This book collects in a single volume all relevant information on alginates in health care including recent advances in the field This is a highly useful resource for pharmaceutical scientists health care professionals and regulatory scientists actively involved in the pharmaceutical product and process development of natural polymer containing drug delivery as well as postgraduate students and postdoctoral research fellows in pharmaceutical sciences Provides a single source on the complete alginate chemistry collection chemical modifications characterization and applications in healthcare fields Includes high quality illustrations along with practical examples and research case studies Contains contributions by global leaders and experts from academia industry and regulatory agencies who are pioneers in the application of natural polysaccharides in diverse pharmaceutical fields

Drug Intelligence & Clinical Pharmacy, 1986 **Developments in non-antibiotic antimicrobials in the era of drug-resistant bacteria** Ritesh Sevalkar, Ana Oliveira, Hugo Oliveira, 2025-10-22 Antibiotic resistance developed by the microbial population is a major global challenge and is reaching an alarming situation incredibly fast There is an immediate need to look at this more seriously than ever Although significant efforts are being made to develop new antibiotics the issue of resistance to those newly developed is also rapidly increasing Limited progress is made in the development of alternative strategies to tackle drug resistant pathogens The development of such new strategies will not only give us more options to treat drug resistant pathogens but also preserve the effectiveness of antibiotics to treat microbial infections To change the current situation actions are needed to control the spread of drug resistant bacterial infections and to focus on the development of alternatives to antibiotic therapies Several emerging strategies are being developed in recent times like host directed therapies therapeutic antibodies nanoparticle based approaches antimicrobial peptides and bacteriophage therapies This research topic edition will cover a wide area of research ranging from host directed therapies to direct targeting of infectious agents The scope of the research topic will be to publish cutting edge research and developments in the areas Developing host directed therapies Vaccines targeted antibodies Therapy with phage or phage derived proteins Antimicrobial peptides Antisense therapy Other non antibiotic antimicrobial approaches The Research Topic welcomes original research articles reviews and commentaries from experts in the field of non antibiotic antimicrobials with a focus on the above mentioned areas

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