

Research Article of Formulation and Evaluation of Fast Dissolving Tablet of Nitrendipine

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ABSTRACT

Objective: The aim of present study is to formulate fast dissolving tablet of Nitrendipine, the drug will be directly absorbed into systemic circulation through buccal mucosa and lead to produce immediate action.

Methods: Fast dissolving tablets of Nitrendipine were prepared by wet granulation method. Required quantity of drug and other excipients were weighed and sieved from sieve no.60 for finding homogenous mixer, then a damp mass of mixer was prepared by using distilled water as a solvent. Damp mass was passed through sieve no. 10 and dried the granules at 50 °C till moisture remaining less than 2%.

Results: All the formulated tablets met the pharmacopoeias standard of uniformity of weight, percentage friability, thickness, and drug content. The in vitro disintegration and dispersion studies were also performed, which shows very good bioavailability and drug release profile. Accelerated stability studies were done for four weeks and found that no significant change in drug content and other parameters like hardness and in vitro dispersion time after four weeks even at 50 °C. It may be predicted that formulation will be stable for more than one year.

Conclusion: The present investigation successfully formulated mouth dissolving tablets of Nitrendipine with improved drug release profile. The formulation was chosen because it showed good results in terms of cumulative drug release, disintegration time, hardness and friability. The dissolution study of this formulation showed an increase in the cumulative % drug release.

KEYWORDS: Fast dissolving tablets, Nitrendipine, Bioavailability, Wet granulation method, Carr's index

INTRODUCTION

Fast dissolving tablets is a solid dosage form that dissolves or disintegrates within a minute in the oral cavity without the need of water and has a pleasant taste. FDT is also known as an orally disintegrating tablet, fast-dissolving tablet, fast-melting tablet, mouth melting tablet or fast-disintegrating tablet. Fast disintegrating dosage form has been successfully commercialized, and the growing importance was highlighted recently when the European Pharmacopoeia adapted the term 'or dispersible tablets' as a tablet to be placed in the mouth where it disperses rapidly before swallowing [1, 2]. FDTs are designed to disintegrate or dissolve rapidly on contact

with saliva, thus eliminating the need for chewing the tablet, swallowing an intact tablet, or taking the tablet with water. Although no water is needed to allow the drug to disperse quickly and efficiently, most technologies utilize the body's own salivation. This mode of administration was initially expected to be beneficial to pediatric and geriatric patients, to people with conditions related to impaired swallowing, and for the treatment of patients when compliance may be difficult (e. g. psychiatric disorders). FDT has previously been distinguished as a separate dosage form because of the specific, intended performance characteristics of such products, which are rapid oral

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Enhancing the Therapeutic Efficacy of Herbal Formulations Kesharwani, Rajesh Kumar, Keservani, Raj K., Sharma, Anil K., 2021-03-19 Novel drug delivery systems cover the approaches formulation technologies and modes for transporting any pharmaceutical compound throughout the body to safely get the desired effect A growing area of research is the use of herbal formulations for disease therapy In combining these two areas of research that of novel drug delivery systems and that of herbal formulations the usefulness of herbs is not only proved but its future applications and effectiveness are studied The move towards herbal based novel drug delivery systems can benefit society in a multitude of advantageous ways Enhancing the Therapeutic Efficacy of Herbal Formulations discusses and explores the ways of preparing herbal formulations loaded in novel drug delivery systems and the resultant improvement in efficacy of the effected drugs herbs already available on the market The chapters will highlight traditional and herbal formulations the effects of novel drug delivery systems on herbal formulations and the safe and effective preparation and effects of herbal formulations as a therapeutic intervention This book is ideal for pharmacists doctors and researchers specializing in herbal therapeutics along with practitioners researchers academicians and students interested in how herbal based novel drug delivery systems can benefit society

PHARMACOGNOSY AND PHYTOCHEMISTRY-II (BP504T) Mr. Ansari Zaki Iqbal Mohammed Ramzan, Prof. (Dr.) Supriya Agnihotri, Dr. Mukesh Kumar Meena, Brijesh Kumar Singh, Dr. N. Ramasamy, 2024-12-25 According to PCI regulations the title of the book is PHARMACOGNOSY AND PHYTOCHEMISTRY II The writer s original intent for the book was to present an integrated database for PHARMACOGNOSY AND PHYTOCHEMISTRY II that would be simple to understand This book s purpose is to enlighten readers on cutting edge drug delivery methods and to steer instructors and students toward key ideas in Pharmacology II The main goal of writing this textbook was to give the material in a clear concise manner to fulfil undergraduate students needs in accordance with PCI guidelines This book was created to educate post graduate students on pharmaceutical jurisprudence as well as adhere to the PCI curriculum for pharmacy undergraduate courses We guarantee

that graduates postgraduates lecturers and industry learners will find this book to be of great use However any recommendations for the text s future enhancement are welcome and will be carefully considered

Handbook of Modern Pharmaceutical Analysis Satinder Ahuja, Stephen Scypinski, 2001 This book describes the role modern pharmaceutical analysis plays in the development of new drugs Detailed information is provided as to how the quality of drug products is assured from the point of discovery until the patient uses the drug Coverage includes state of the art topics such as analytics for combinatorial chemistry and high throughput screening formulation development stability studies international regulatory aspects and documentation and future technologies that are likely to impact the field Emphasis is placed on current easy to follow methods that readers can apply in their laboratories No book has effectively replaced the very popular text *Pharmaceutical Analysis* that was edited in the 1960s by Tak Higuchi This book will fill that gap with an up to date treatment that is both handy and authoritative

Dosage Forms, Formulation Developments and Regulations Amit Kumar Nayak, Kalyan Kumar Sen, 2023-12-09 Dosage Forms Formulation Developments and Regulations Volume One in the Recent and Future Trends in Pharmaceutics series explores aspects of pharmaceutics with an original approach focused on technology novelties and future trends in the field The book discusses the most recent developments in pharmaceutical preformulation and formulation studies biopharmaceutics and novel pharmaceutical formulations regulatory affairs and good manufacturing practices Exciting areas such as formulation strategies optimization techniques the biopharmaceutical classification system and pharmaceutical aerosols are included The field of pharmaceutics is highly dynamic and rapidly expanding day by day so it demands a variety of amplified efforts for designing and developing pharmaceutical processes and formulation strategies This is an essential reference for researchers in academia and industry as well as advanced graduate students in pharmaceutics Examines trends and recent technologies in dosage formulation and regulation Contains contributions from leading experts in academia research industry and regulatory agencies Includes high quality illustrations flow charts and tables for easy understanding of concepts Discusses practical examples and research case studies

Integrated Pharmaceutics Antoine Al-Achi, Mali Ram Gupta, William Craig Stagner, 2013-02-11 Focusing on the application of physical pharmacy drug design and drug regulations as they relate to produce effective dosage forms for drug delivery Integrated Pharmaceutics provides a comprehensive picture of pharmaceutical product design describing the science and art behind the concepts of dosage form development Combining physical pharmacy product design and regulatory affairs issues in a single book the authors address topics governing drug regulations of United States European and Japanese agencies and detail new regulatory guidelines including quality by design design space analysis and blend sample uniformity

Solid Oral Dose Process Validation, Volume Two Ajay Pazhayattil, Naheed Sayeed-Desta, Emilija Fredro-Kumbaradzi, Marzena Ingram, Jordan Collins, 2019-08-30 The textbook addresses the lifecycle concepts Stage 1 2 3 of Process Validation Regulatory bodies such as US FDA EMEA WHO PIC S have adopted the ICH lifecycle approach Organizations have an opportunity to

harmonize and align PV activities for all regulated markets The concepts discussed provides a direction on how to approach solid dose manufacturing process validation for regulatory compliance Solid Oral Dose Process Validation Lifecycle Approach Application Volume Two and the companion Volume One Solid Dose Process Validation The Basics also available as a set provide directions and solutions for the pharmaceutical industry The topics and chapters give a systematic understanding for the application of lifecycle concepts in solid dose pharmaceutical manufacturing Since solid dose formulations encompass majority of the pharmaceutical preparations it is essential information for pharmaceutical professionals who use the process validation lifecycle approach This set is published as a comprehensive solution for solid dose process validation Frontiers

in Anti-Infective Agents: Volume 5 Parvesh Singh,Vipan Kumar ,Rajshekhar Karpoomath,2021-09-14 Anti infective agents are a distinct class of pharmacologically important molecules that has served mankind in different capacities to combat life threatening pathologic conditions They include antibacterial antifungal antiviral antituberculosis antimalarial and urinary anti infective agents However evolutionary changes adaptations and development of pathogenic microorganisms strains the therapeutic efficacy of these drugs thus limiting their clinical utility over the years Frontiers in Anti Infective Agents Volume 5 is a collection of notable research efforts successful anti infective drug development programmes and a comprehensive overview of the successes and failures of recent clinical trials in this domain The volume covers interesting topics 1 the treatment of acute wounds with the vikut formula 2 anti infective treatment of ocular diseases and 3 sars cov vaccine development and antimicrobial therapy for SARS symptoms A chapter summarizing recent anti infective approaches rounds up the contents of this volume This volume is a timely reference for postgraduate scholars and researchers seeking updates in specific areas of anti infective drug development Allied healthcare professionals clinical and public healthcare

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