

## Research Article

# Formulation Development and Evaluation of Fast Disintegrating Tablets of Salbutamol Sulphate, Cetirizine Hydrochloride in Combined Pharmaceutical Dosage Form: A New Era in Novel Drug Delivery for Pediatrics and Geriatrics

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The objective of the present study was to prepare the fast disintegrating tablet of Salbutamol Sulphate, Cetirizine Hydrochloride in combined tablet dosage form for respiratory disorders such as bronchitis, asthma, and coughing for pediatrics and geriatrics. The tablets were prepared by direct compression technique. Superdisintegrant such as Sodium Starch Glycolate was optimized as 4% on the basis of least disintegration time. Different binders such as MCC and PVP K-30 were optimized along with optimized superdisintegrant concentration. 1% MCC was selected as optimum binder concentration on the basis of least disintegration time. The tablets were evaluated for hardness, friability, weight variation, wetting time, disintegration time, and drug content uniformity. Optimized formulation was further evaluated by *in vitro* dissolution test, drug-excipient compatibility, and accelerated stability study. Percent weight variation and content uniformity were within the acceptable limit. The friability was less than 1%. The wetting time and disintegration time were practically good for all formulations. FTER studies and accelerated stability study showed that there was no interaction between the drug and excipients. It was concluded that, by employing commonly available pharmaceutical excipients such as superdisintegrants, hydrophilic and swellable excipients and proper filler, a fast disintegrating tablet of Salbutamol Sulphate, Cetirizine Hydrochloride in combined tablet dosage form, were formulated successfully with desired characteristics.

## 1. Introduction

Fast disintegrating tablets (FDTs) have received ever-increasing demand during the last decade, and the field has become a rapidly growing area in the pharmaceutical industry. Recent advancements in novel drug delivery system (NDDS) aim to enhance safety and efficacy of drug molecule by formulating a convenient dosage form for administration in order to achieve better patient compliance. One such approach is "fast disintegrating tablet." Many patients find it difficult to swallow tablets and hard gelatin capsules that results in high incidence of noncompliance and ineffective therapy [1, 2]. Fast disintegrating drug delivery systems

(FDDDS) are a new generation of formulations which combine the advantages of both liquid and conventional tablet formulations and, at the same time, offer added advantages over both traditional dosage forms. They provide the convenience of a tablet formulation and also allow the ease of swallowing provided by a liquid formulation [3]. The concept of fast dissolving/disintegrating tablets emerged from the desire to provide patients with more conventional means of taking their medication when drinking water is not available and in certain cases such as motion sickness, sudden episodes of allergic attacks, or coughing. Particularly these types of difficulty are faced by pediatric and geriatric patients [4]. Recent developments in technology have

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**Dr. Yedlapalli. Govindarao , Dr. P.R. Vijai Anand, Dr. K. Nithiyananthan , Mr. Nadeem Hasan , Dr. Shrutika D. Patil**

## **Research Article Formulation Development And Evaluation Of:**

**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 *A Textbook of Cosmetic Science* Dr. (Prof.) Sailesh Kumar Ghatuary , Dr. Gaurav Dubey , Dr. Satkar Prasad, 2024-07-13 Introducing the book *Cosmetic Science* is something that fills me with an incredible amount of joy The content of this book has been meticulously crafted to adhere to the curriculum for Bachelor of Pharmacy students that has been outlined by the Pharmacy Council of India An effort has been made to investigate the topic using terminology that is as straightforward as possible in order to make it more simply digestible for pupils The book has a number of illustrations such as flowcharts and diagrams that make it simple for students to comprehend complex ideas It is the author s honest desire that both students and academicians would take something helpful away from reading this book *A Text Book of Pharmaceutics-I* Koustav Dutta, Veeravenkata Lakshmi Ankith Goli , Ipsita Mondal, Dr Subhasis Chakrabarty, Dr. Partha Roy, 2026-03-13 This Textbook of Pharmaceutics 1 has been designed in alignment with the New Education Policy NEP 2020 to build a strong academic and professional foundation for students at the introductory level of pharmacy education It presents core concepts related to the pharmacy profession pharmaceutical dosage forms calculations and the expanding responsibilities of pharmacists within modern healthcare systems By integrating theoretical principles with practical relevance the book prepares learners for advanced studies in pharmaceutical technology and professional practice The content is organized into five well structured units that progress systematically from the historical development and scope of pharmacy in India to the scientific and applied aspects of dosage form design Students are introduced to the evolution of the profession the significance of pharmacopoeias and official standards and the ethical duties of pharmacists These fundamentals are further reinforced through topics such as prescription interpretation pharmaceutical calculations and the formulation of solid liquid semisolid and suppository dosage forms In accordance with NEP 2020 the book promotes competency based learning by emphasizing application oriented outcomes It enables students to develop skills in calculations formulation principles and professional communication while fostering ethical awareness and accountability Overall this book supports holistic education and aims to produce competent responsible and adaptable pharmacy graduates capable of meeting future challenges in healthcare and pharmaceutical sciences Pharmaceutical

Drug Product Development and Process Optimization Sarwar Beg, Majed Al Robaian, Mahfoozur Rahman, Syed Sarim Imam, Nabil Alruwaili, Sunil Kumar Panda, 2020-05-01 Pharmaceutical manufacturers are constantly facing quality crises of drug products leading to an escalating number of product recalls and rejects. Due to the involvement of multiple factors, the goal of achieving consistent product quality is always a great challenge for pharmaceutical scientists. This volume addresses this challenge by using the Quality by Design (QbD) concept, which was instituted to focus on the systematic development of drug products with predefined objectives to provide enhanced product and process understanding. This volume presents and discusses the vital precepts underlying the efficient, effective, and cost-effective development of pharmaceutical drug products. It focuses on the adoption of systematic quality principles of pharmaceutical development, which is imperative in achieving continuous improvement in end product quality and also leads to reducing cost, time, and effort while meeting regulatory requirements. The volume covers the important new advances in the development of solid oral dosage forms, modified release oral dosage forms, parenteral dosage forms, semisolid dosage forms, transdermal drug delivery systems, inhalational dosage forms, ocular drug delivery systems, nanopharmaceutical products, and nanoparticles for oral delivery. *Development of Biopharmaceutical Drug-Device Products* Feroz Jameel, John W. Skoug, Robert R. Nesbitt, 2020-03-13 The biotechnology/biopharmaceutical sector has tremendously grown, which led to the invention of engineered antibodies such as Antibody Drug Conjugates (ADCs), Bispecific T cell engager (BITES), Dual Variable Domain (DVD) antibodies, and fusion proteins that are currently being used as therapeutic agents for immunology, oncology, and other disease conditions. Regulatory agencies have raised the bar for the development and manufacture of antibody-based products, expecting to see the use of Quality by Design (QbD) elements demonstrating an in-depth understanding of product and process based on sound science. Drug delivery systems have become an increasingly important part of the therapy, and most biopharmaceuticals for self-administration are being marketed as combination products. A survey of the market indicates that there is a strong need for a new book that will provide one-stop shopping for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development. The new book entitled *Development of Biopharmaceutical Drug Device Products* is a reference text for scientists and engineers in the biopharmaceutical industry, academia, or regulatory agencies. With insightful chapters from experts in the field, this new book reviews first principles, covers recent technological advancements, and provides case studies and regulatory strategies relating to the development and manufacture of antibody-based products. It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection, formulation strategies for new modalities, and the analytical techniques used to characterize them. It also addresses important considerations for later stage development, such as the development of robust formulations and processes, including process engineering and modeling of manufacturing unit operations, the design of analytical comparability studies, and characterization of primary containers, pre-filled syringes, and

vials Finally the latter half of the book reviews key considerations to ensure the development and approval of a patient centered delivery system design This involves the evolving regulatory framework with perspectives from both the US and EU industry experts the role of international standards design control risk management human factors and its importance in the product development and regulatory approval process as well as review of the risk based approach to bridging between devices used in clinical trials and the to be marketed device Finally case studies are provided throughout The typical readership would have biology and or engineering degrees and would include researchers scientific leaders industry specialists and technology developers working in the biopharmaceutical field

**Drug Development** Chris Rundfeldt,2011-12-07 This book represents a case study based overview of many different aspects of drug development ranging from target identification and characterization to chemical optimization for efficacy and safety as well as bioproduction of natural products utilizing for example lichen In the last section special aspects of the formal drug development process are discussed Since drug development is a highly complex multidisciplinary process case studies are an excellent tool to obtain insight in this field While each chapter gives specific insight and may be read as an independent source of information the whole book represents a unique collection of different facets giving insight in the complexity of drug development

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**A Textbook of Medicinal Chemistry - I** Dr. Vikas Vasant Patil, Mr. Manoj Gangadhar Shinde, Dr. Ashok Sarjerao Narute, Mrs. Gayatri Virendra Athalekar, Ms. Aaliya Naaz,2024-06-18 The introduction of the book A Textbook of Medicinal Chemistry I makes me really happy This book s material has been painstakingly created to conform to the Pharmacy Council of India s prescribed curriculum for students pursuing a bachelor s degree in pharmacy To make the subject easier for students to understand an attempt has been made

to research it using as simple a vocabulary as possible Many images throughout the book including flowcharts and diagrams help students understand difficult concepts The genuine hope of the author is that readers of this book academics and students alike will find something of value The pharmaceutical product development process serves as the cornerstone for the formulation development process The formulation scientist has the responsibility of monitoring various material parameters such as API and excipients formulation process parameters dosage forms and other related aspects throughout the product development process This book provides straightforward and understandable explanations of a wide range of formulation development related subjects including dose I m hopeful that this book will be well received by both instructors and students We are willing to consider suggestions on any and all facets of the industry Any deviations or inaccuracies that may have gone unnoticed are entirely our fault and we would be very grateful if readers could point them out to us if they did I m hopeful that this book will be well received by both instructors and students We are willing to consider suggestions on any and all facets of the industry Any deviations or inaccuracies that may have gone unnoticed are entirely our fault and we would be very grateful if readers could point them out to us if they did

*Instrumental Methods of Analysis* Dr. Yedlapalli. Govindarao , Dr. P.R. Vijai Anand, Dr. K. Nithiyanthan , Mr. Nadeem Hasan , Dr. Shrutika D. Patil,2025-04-05 This book Instrumental Methods of Analysis is designed to meet the growing demand for comprehensive knowledge of modern analytical instruments and their applications It aims to provide students researchers and professionals with a clear understanding of the fundamental principles instrumentation and applications of various analytical techniques The text begins by introducing basic concepts related to measurement and analysis followed by detailed discussions of classical and modern techniques such as spectroscopy chromatography mass spectrometry electroanalytical methods and thermal analysis Each chapter is supplemented with examples illustrations and real world applications to provide practical insights into the functioning and utility of these instruments

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