

Modified-Release Drug Delivery Technology

Second Edition

Volume 1



edited by

Michael J. Rathbone
Jonathan Hadgraft
Michael S. Roberts
Majella E. Lane

informa
healthcare

Modified Release Drug Delivery Technology

Joseph R. Robinson



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Modified-Release Drug Delivery Technology Michael J. Rathbone, Jonathan Hadgraft, Michael S. Roberts, 2002-11-07
Describing formulation challenges and their solutions in the design development and commercialization of modified release drugs delivery systems this book contains eighty papers that review recent developments in design and manufacturing techniques It includes detailed descriptions of extended release drug products for the oral nasal ophthalmic pulmonary vaginal dermal and transdermal pathways With the exception of the final section addressing regulatory issues each section covers a particular route for drug delivery and opens with an overview of the anatomical physiological and pharmaceutical basics of each route before moving on to cover specific technologies *Modified-release Drug Delivery Technology*, 2008

Modified-Release Drug Delivery Technology Michael Rathbone, Jonathan Hadgraft, Michael S. Roberts, Majella E. Lane, 2008-05-28 This two volume Second Edition describes the anatomical physiological pharmaceutical and technological aspects of delivery routes found in areas like Oral Ocular Dermal and transdermal Vaginal Colonic Oral mucosal Nasal Pulmonary Providing insight and critical assessment of the many available and emerging modified release drug delivery systems fo **Modified-Release Drug Delivery Technology, Second Edition** Michael J. Rathbone, Jonathan Hadgraft, Michael S. Roberts, Majella E. Lane, 2008-05-28 This two volume Second Edition describes the anatomical physiological pharmaceutical and technological aspects of oral colonic and rectal ocular oral mucosal dermal and transdermal nasal vaginal and pulmonary delivery routes providing insight and critical assessment of the many available and emerging modified release drug delivery systems for their current and future value Topics include **Oral Drug Delivery for Modified Release Formulations** Edmund S. Kostewicz, Maria Vertzoni, Heather A. E. Benson, Michael S. Roberts, 2022-04-04 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 used in the field Discusses the present status of MR technologies and identifies current gaps in research Includes a summary of regulatory guidelines from both the US and the EU Shares industrial experiences and perspectives on the evaluation of MR dosage formulations Oral Drug Delivery for Modified Release Formulations is an invaluable reference and guide for researchers industrial scientists and graduate students in general areas of drug delivery including pharmaceuticals pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering *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 *Gibaldi's Drug Delivery Systems in Pharmaceutical Care* Mary Lee, Archana Desai, 2007 Tying together concepts of traditional pharmaceuticals in a way this text focuses on the selection of appropriate dosage forms as an integral part of drug therapy **Epilepsy** Jong Rho, Raman Sankar, Carl E. Stafstrom, 2010-06-18 Epilepsy has afflicted humankind throughout recorded history yet it is only in the last half century that significant progress has been made in our basic understanding of the epileptic brain Pivotal advances in drug development and surgical techniques as well as the emergence of innovative approaches such as electrical stimulation of the nerve Integrated Pharmaceutics Antoine Al-Achi, Mali Ram Gupta, William Craig Stagner, 2013-01-22 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 *Biodrug Delivery Systems* Mariko Morishita, Kinam Park, 2016-04-19 Biodrug Delivery Systems Fundamentals Applications and Clinical Development presents the work of an international group of leading experts in drug development and biopharmaceutical science who discuss the latest advances in biodrug delivery systems and associated techniques The book discusses components of successful formulation delivery and p **Remington** David B. Troy, Paul Beringer, 2006 For over 100 years Remington has been the definitive textbook and reference on the science and practice of pharmacy This Twenty First Edition keeps pace with recent changes in the pharmacy curriculum and professional pharmacy practice More than 95 new contributors and 5 new section editors provide fresh perspectives on the field New chapters include pharmacogenomics application of ethical principles to practice dilemmas technology and automation professional communication medication errors re engineering pharmacy practice management of special risk medicines specialization in pharmacy practice disease state management emergency patient care and wound care Purchasers of this textbook are entitled to a new fully indexed Bonus CD ROM affording instant access to the full content of Remington in a convenient and portable format Nitroglycerin Sustained Release Tablet. Formulation Design and Evaluation Subrata Bhadra, 2013-08-07 Master s Thesis from the year 2010 in the subject Medicine Pharmacology Pharmacy University of Dhaka M Pharm in Pharmaceutical Technology language English abstract The aim of the present studies was to develop and characterize 2.6 mg sustained release matrix tablets of Nitroglycerin Tablets were prepared by direct compression method Methocel K15M CR and Methocel K100LV CR polymers were used as rate retarding agents in nine formulations F 1 to F 9 The granules were evaluated for angle of repose loose bulk density tapped bulk density Carr s index Hausner ratio moisture content total porosity and assay The tablets were subjected to diameter thickness assay uniformity of content assay after 1 Month at 40 C 75%RH hardness friability and in vitro dissolution studies The granules showed satisfactory flow properties compressibility and drug content All the tablet formulations showed acceptable pharmacotechnical properties and complied with pharmacopoeial specifications for tested parameters The in vitro dissolution study was carried out for 8 hour using USP 2009 Apparatus I Rotating basket method in distilled water as the dissolution medium The release mechanisms were explored and explained by Zero order First order Higuchi Korsmeyer Peppas and Hixson Crowell equations Nine formulations were prepared by using three variable ratio of two polymers Methocel K15M CR 25% 20% and 15% and Methocel K100LV CR 15% 10% and 5% where all the formulations F 1 to F 9 contained 0.5% colloidal silicon dioxide and 1% magnesium stearate Among these nine formulations six formulations F 2 Methocel K15M CR Methocel K100LV CR 25% 10% F 3 Methocel K15M CR Methocel K100LV CR 25% 5% F 4 Methocel K15M CR Methocel K100LV CR 20% 15% F 5 Methocel K15M CR Methocel K100LV CR 20% 10% F 6 Methocel K15M CR Methocel K100LV CR 20% 5% and F 7 Methocel K15M CR

Methocel K100LV CR 15% 15% met the official specification of release profile It was also found that the type and the amount of polymers significantly affect the time required for 50% T50% or MDT of drug release release rate constant and diffusion exponent Higher the MDT value indicates a higher drug retaining capacity of the polymers and vice versa Kinetic modeling of in vitro dissolution profiles revealed the drug release mechanism of all proposed formulations followed anomalous type or non Fickian transport $n = 0.43$ and $n = 0.43$ Cellulose Chemistry and Technology, 2006 **Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems** Loyd V. Allen, Nicholas G. Popovich, Howard C. Ansel, 2011 Thanks to its comprehensive coverage clear explanations and logical organization Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems has been a core pharmaceuticals text in the pharmacy curriculum for more than 40 years As you progress through this thoroughly updated Ninth Edition you will master all the principles practices and technologies essential for the preparation of pharmaceutical dosage forms and drug delivery systems The text's integrated approach will help you understand the interrelationships among pharmaceutical and biopharmaceutical principles product design formulation manufacturing compounding and the clinical application of dosage forms for effective patient care Book Jacket **Pharmaceutics for the Pharmacy Students** Indiran Pather, Chandra Kolli, 2024-05-31 An innovative new text for the pharmacy student that shows the relevance of pharmaceuticals to clinical practice Written for pharmacy students who want to gain a better understanding of pharmaceuticals this full color resource shows the relevance of pharmaceuticals to clinical practice The text provides students with an understanding of industrial pharmacy practices which will assist them in correlating dosage form considerations with specific patient situations in real world practice While written on a level suitable for those with a pharmacy background the book distinguishes itself from the competition by its more explanatory conversational tone Outstanding pedagogy includes chapter summaries line drawings self test questions key concepts and active learning exercises Case studies and what if scenarios prepare students for real world practice Rich full color presentation Sustained and Controlled Release Drug Delivery Systems Joseph R. Robinson, 1978 **Handbook of Drug Screening, Second Edition** Ramakrishna Seethala, Litao Zhang, 2009-06-24 A presentation of screening techniques modern technologies and high capacity instrumentation for increased productivity in the development and discovery of new drugs chemical compounds and targeted delivery of pharmaceuticals It contains practical applications and examples of strategies in cell based and cell free screens as well as homogeneous fluorescence chemiluminescence and radioactive based technologies **British Pharmaceutical Codex**, 1994 **Modern Pharmaceutics** Alexander Taylor Florence, Jürgen Siepmann, 2009 Modern Pharmaceutics examines the impact of pharmaceutical biotechnology cell therapy pharmacogenomics biotherapeutics and nanotechnology on current practice and the potential for personalized medicines and implications for pediatric and geriatric formulations Reflecting the shift away from physical pharmacy Modern Pharmaceutics is the must have current reference text for pharmaceuticals and drug delivery Polymorphism in Pharmaceutical Solids, Second Edition H. G. Brittain, 2009-07-27 Using clear and practical

examples this volume presents a comprehensive examination of polymorphic behavior in pharmaceutical development The book is ideal for pharmaceutical development scientists and graduate students in pharmaceutical science This second edition focuses on the pharmaceutical aspects of polymorphism and solvatomorphism while systematically explaining their thermodynamic and structural origins Topics in this edition include computational methodologies high throughput screening methods pharmaceutical cocrystals and thermally induced and solution mediated phase transformations The book also examines amorphous solids the amorphous state and crystallography preparation and characterization

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