

Research Article Formulation And Development Of Sustained Pdf

N. K. Jain

Excipient Applications in Formulation Design and Drug Delivery Ajit S Narang,Sai H S. Boddu,2015-10-07 In recent years, emerging trends in the design and development of drug products have indicated ever greater need for integrated characterization of excipients and in-depth understanding of their roles in drug delivery applications. This book presents a concise summary of relevant scientific and mechanistic information that can aid the use of excipients in formulation design and drug delivery applications. Each chapter is contributed by chosen experts in their respective fields, which affords truly in-depth perspective into a spectrum of excipient-focused topics. This book captures current subjects of interest - with the most up to date research updates - in the field of pharmaceutical excipients. This includes areas of interest to the biopharmaceutical industry users, students, educators, excipient manufacturers, and regulatory bodies alike.

Oral Controlled Release Formulation Design and Drug Delivery Hong Wen,Kinam Park,2011-01-14 This book describes the theories, applications, and challenges for different oral controlled release formulations. This book differs from most in its focus on oral controlled release formulation design and process development. It also covers the related areas like preformulation, biopharmaceutics, in vitro-in vivo correlations (IVIVC), quality by design (QbD), and regulatory issues.

Aulton's Pharmaceutics Michael E. Aulton,Kevin Taylor,2013 Pharmaceutics is the art of pharmaceutical preparations. It encompasses design of drugs, their manufacture and the elimination of micro-organisms from the products. This book encompasses all of these areas.--Provided by publisher.

Handbook of Pharmaceutical Manufacturing Formulations Safaraz K. Niazi,2016-04-19 No other area of regulatory compliance receives more attention and scrutiny by regulatory authorities than the regulation of sterile products, for obvious reasons. With the increasing number of potent products, particularly the new line of small protein products, joining the long list of proven sterile products, the technology of manufacturing ster

Controlled and Novel Drug Delivery N. K. Jain,2019-01-30 This book gathers together the research work of leading Indian scientists actually engaged in pharmaceutical research. The contributors are all distinguished experts in their respective fields. All the contributors are scientists working in Indian laboratories, however their achievements in the field

are full of valuable information supplemented with adequate references which help the intended readers in digging out the complete information on any aspect. The book has 17 chapters, 150 figures and over 2150 references and will be of immense use for all pharmaceutical industries, RD laboratories, research scientists in universities colleges, teachers as well as post-graduate and graduate students.

Formulation and Analytical Development for Low-Dose Oral Drug Products Jack Zheng, 2009-02-09 There are unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs. This book provides an overview of this specialized field and combines formulation, analytical, and regulatory aspects of low-dose development into a single reference book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a discussion of regulatory requirements, this is a core reference for pharmaceutical scientists, regulators, and graduate students.

Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals Feroz Jameel, Susan Hershenson, 2010-07-13 A real-world guide to the production and manufacturing of biopharmaceuticals While much has been written about the science of biopharmaceuticals, there is a need for practical, up-to-date information on key issues at all stages of developing and manufacturing commercially viable biopharmaceutical drug products. This book helps fill the gap in the field, examining all areas of biopharmaceuticals manufacturing, from development and formulation to production and packaging. Written by a group of experts from industry and academia, the book focuses on real-world methods for maintaining product integrity throughout the commercialization process, clearly explaining the fundamentals and essential pathways for all development stages. Coverage includes: Research and early development phase appropriate approaches for ensuring product stability Development of commercially viable formulations for liquid and lyophilized dosage forms Optimal storage, packaging, and shipping methods Case studies relating to therapeutic monoclonal antibodies, recombinant proteins, and plasma fractions Useful analysis of successful and failed products *Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals* is an essential resource for scientists and engineers in the pharmaceutical and biotech industries, for government and regulatory agencies, and for anyone with an interest in the latest developments in the field.

Controlled Drug Release Of Oral Dosage Forms Jean-Maurice Vergnaud, 1993-07-31 Numerical analysis of matter transfer is an area that pharmacists find difficult, but which is a technique frequently used in preparing controlled drug release and oral dosage forms. This book provides clear and straightforward information enabling the reader to carry out numerical analysis of matter transfer - a vital process when looking at the formulation of oral dosage forms with controlled drug release. The drug is dispersed in a polymeric matrix either biodegradable or not, the basis of which is the transfer of the liquid and the drug through dosage form. Information on this diffusion is found either through mathematical treatment when

the problem is simple, or through numerical analysis for more complex problems. Professor Vergnaud demonstrates and clarifies these, modelling the process of drug delivery by using numerical analysis and computerization. A simulation of the process is provided, together with a determination of the effects of all parameters, and the author uses both mathematical and numerical models to predict the preparation of new dosage forms able to fulfil specific conditions.

3D Printing of Pharmaceuticals Abdul W. Basit, Simon Gaisford, 2018-08-06 3D printing is forecast to revolutionise the pharmaceutical sector, changing the face of medicine development, manufacture and use. Potential applications range from pre-clinical drug development and dosage form design through to the fabrication of functionalised implants and regenerative medicine. Within clinical pharmacy practice, printing technologies may finally lead to the concept of personalised medicines becoming a reality. This volume aims to be the definitive resource for anyone thinking of developing or using 3D printing technologies in the pharmaceutical sector, with a strong focus on the translation of printing technologies to a clinical setting. This text brings together leading experts to provide extensive information on an array of 3D printing techniques, reviewing the current printing technologies in the pharmaceutical manufacturing supply chain, in particular, highlighting the state-of-the-art applications in medicine and discussing modern drug product manufacture from a regulatory perspective. This book is a highly valuable resource for a range of demographics, including academic researchers and the pharmaceutical industry, providing a comprehensive inventory detailing the current and future applications of 3D printing in pharmaceuticals. Abdul W. Basit is Professor of Pharmaceutics at the UCL School of Pharmacy, University College London. Abdul's research sits at the interface between pharmaceutical science and gastroenterology, forging links between basic science and clinical outcomes. He leads a large and multidisciplinary research group, and the goal of his work is to further the understanding of gastrointestinal physiology by fundamental research. So far, this knowledge has been translated into the design of new technologies and improved disease treatments, many of which are currently in late-stage clinical trials. He has published over 350 papers, book chapters and abstracts and delivered more than 250 invited research presentations. Abdul is also a serial entrepreneur and has filed 25 patents and founded 3 pharmaceutical companies (Kuecept, Intract Pharma, FabRx). Abdul is a frequent speaker at international conferences, serves as a consultant to many pharmaceutical companies and is on the advisory boards of scientific journals, healthcare organisations and charitable bodies. He is the European Editor of the International Journal of Pharmaceutics. Abdul was the recipient of the Young Investigator Award in Pharmaceutics and Pharmaceutical Technology from the American Association of Pharmaceutical Scientists (AAPS) and is the only non-North American scientist to receive this award. He was also the recipient of the Academy of Pharmaceutical Sciences (APS) award. Simon Gaisford holds a Chair in Pharmaceutics and is Head of the Department of Pharmaceutics at the UCL School of Pharmacy, University College London. He has published 110 papers, 8 book chapters and 4 authored books. His research is focused on novel technologies for manufacturing medicines, particularly using ink-jet printing and 3D printing, and he is an

expert in the physico-chemical characterisation of compounds and formulations with thermal methods and calorimetry.

The Growth Report Commission on Growth and Development,2008-07-23 The result of two years work by 19 experienced policymakers and two Nobel prize-winning economists, 'The Growth Report' is the most complete analysis to date of the ingredients which, if used in the right country-specific recipe, can deliver growth and help lift populations out of poverty.

Handbook of Pharmaceutical Granulation Technology Dilip M. Parikh,2021-05-11 Theoretical discussions covering granulation and engineering perspectives. Covers new advances in expert systems, process modelling and bioavailability Chapters on emerging technologies in particle engineering Updated Current research and developments in granulation technologies

Controlled Release in Oral Drug Delivery Clive G. Wilson,Patrick J. Crowley,2011-09-22 Controlled Release in Oral Drug Delivery provides focus on specific topics, complementing other books in the initial CRS series. Each chapter sets the context for the inventions described and describe the latitude that the inventions allow. In order to provide some similar look to each chapter, the coverage includes the historical overview, candidate drugs, factors influencing design and development, formulation and manufacturing and delivery system design. This volume was written along three main sections: the relevant anatomy and physiology, a discussion on candidates for oral drug delivery and the major three groups of controlled release systems: diffusion control (swelling and inert matrices); environmental control (pH sensitive coatings, time control, enzymatic control, pressure control) and finally lipidic systems.

Modified-release Drug Delivery Technology ,2008

From Test Tube to Patient DIANE Publishing Company,1995-07 Covers: laboratory and animal studies, testing in real people, experimental drugs, watching for problems, myths and facts of generic drugs, and much more. Illustrated.

Psychodynamic Formulation Deborah L. Cabaniss,Sabrina Cherry,Carolyn J. Douglas,Ruth L. Graver,Anna R. Schwartz,2013-03-22 How do our patients come to be the way they are? What forces shape their conscious and unconscious thoughts and feelings? How can we use this information to best help them? Constructing psychodynamic formulations is one of the best ways for mental health professionals to answer questions like these. It can help clinicians in all mental health setting understand their patients, set treatment goals, choose therapeutic strategies, construct meaningful interventions and conduct treatment. Despite the centrality of psychodynamic formulation to our work with patients, few students are taught how to construct them in a clear systematic way. This book offers students and practitioners from all fields of mental health a clear, practical, operationalized method for constructing psychodynamic formulations, with an emphasis on the following steps: DESCRIBING problems and patterns REVIEWING the developmental history LINKING problems and patterns to history using organizing ideas about development. The unique, up-to-date perspective of this book integrates psychodynamic theories with ideas about the role of genetics, trauma, and early cognitive and emotional difficulties on development to help

clinicians develop effective formulations. Psychodynamic Formulation is written in the same clear, concise style of Psychodynamic Psychotherapy: A Clinical Manual (Wiley 2011). It is reader friendly, full of useful examples, eminently practical, suitable for either classroom or individual use, and applicable for all mental health professionals. It can stand alone or be used as a companion volume to the Clinical Manual.

Fundamentals and Applications of Controlled Release Drug Delivery Juergen Siepmann, Ronald A. Siegel, Michael J. Rathbone, 2011-12-15 This book approaches the subject from a mechanistic perspective that pitches the language at a level that is understandable to those entering the field and who are not familiar with its common phrases or complex terms. It provides a simple encapsulation of concepts and expands on them. In each chapter the basic concept is explained as simply and clearly as possible without a great deal of detail, then in subsequent sections additional material, exceptions to the general rule, examples, etc., is introduced and built up. Such material was generously supplemented with diagrams; conceptually elegant line diagrams in two or three colors. The artwork was well thought out and able to condense the scientific principles into a novel and visually exciting form. The diagrams encourage browsing or draw the reader to salient points. In addition, the technique of highlighting key concepts in a separate box is used throughout each chapter.

Novel Drug Delivery Systems Yie Chien, 2019-08-30 A comprehensive treatment of the science, technology, and regulation of rate-controlled administration of therapeutic agents, with coverage of the basic concepts, fundamental principles, biomedical rationales, and potential applications. This revised and updated edition (first in 1982) incorporates

Formulation in Psychology and Psychotherapy Lucy Johnstone, Rudi Dallos, 2013-07-18 The first edition of Formulation in Psychology and Psychotherapy caught the wave of growing interest in formulation in a clinical context. This completely updated and revised edition summarises recent practice, research, developments and debates while retaining the features that made the first a leading text in the field. It contains new chapters on personal construct formulation, formulation in health settings, and the innovative practice of using formulation in teams. The book sees formulation as a dynamic process which explores personal meaning collaboratively and reflectively, taking account of relational and social contexts. Two case studies, one adult and one child, illustrate the use of formulation from the perspectives of expert clinicians from six different theoretical positions. The book encourages the reader to take a constructively critical perspective on the many philosophical, professional and ethical debates raised by the process of formulating people's problems. Among the issues explored are: The social and political context of formulation Formulation in relation to psychiatric diagnosis The limitations of formulation Controversies and debates about formulation This readable and comprehensive guide to the field provides a clear, up to date and thought-provoking overview of formulation from a number of perspectives, essential for clinicians working in all areas of mental health and social care, psychology, therapy and counselling.

Oil-in-Water Nanosized Emulsions for Drug Delivery and Targeting Tamilvanan Shunmugaperumal, 2020-12-22 This book

combines emulsion knowledge into a single, comprehensive volume, ideal for professionals and students involved in the areas of pharmaceutical science who are looking to learn about this emergent research concept. Compiles the step-by-step investigations made concerning the potential of nanosized emulsions on both drug delivery and drug targeting areas by different group of scientists in various laboratories across the world Inverts the common nano-emulsions coverage trend of focusing on focused on the particulate system itself, instead exploring the way to turn nanosized emulsions as biomedical tool, as well as, treating the in vitro and in vivo aspects after administration Provides an overview of the current state-of-the art regarding the development of tocol emulsions, emulsion adjuvants in immunization research, oxygen-carrying emulsions (called as fluorocarbon emulsion) and emulsions for delivering drugs to nasal and topical (ocular and transdermal) routes

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 1Month 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

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