Dissolution Apparatus

Gastrointestinal Agents—Advances in Research and Application: 2013 EditionApplied Biopharmaceutics & Pharmacokinetics, Sixth EditionDISSOLUTION RATE BEHAVIOR OF DIFFERENT SOLID PREPARATIONS OF CHOLESTEROL IN BILE ACID SOLUTIONS.Developing Solid Oral Dosage FormsDISSOLUTION OF ACIDIC AND BASIC COMPOUNDS FROM THE ROTATING DISK: INFLUENCE OF DIFFUSION, CONVECTION, AND REACTION.Handbook of PreformulationDevelopment and Validation of Analytical MethodsDissolution, Bioavailability & BioequivalenceApplied Physical PharmacyEssentials Of Biopharmaceutics And PharmacokineticsNonsink Dissolution Kinetics of Poorly Soluble Substances Assessed in a Column AppratusHard CapsulesGlucocorticoids—Advances in Research and Application: 2012 EditionDissolution at Porous InterfacesDissolution Shelf Life of Hydroxypropyl Methyl Cellulose Coated Aspirin Tablets at I.C.H. Temperatures and Various Relative HumiditiesSolid-state Chemistry of DrugsThe Role of the Study Director in Nonclinical StudiesTheory and Practice of Physical Pharmacy - E-BookAmerican LaboratoryApplied Biopharmaceutics & Pharmacokinetics, Seventh EditionOral Drug AbsorptionIssues in Biochemistry and Biomaterials: 2011 EditionSpecification of Drug Substances and ProductsDissolution TechnologyApplied Biopharmaceutics & Pharmacokinetics, Fifth EditionBasic PharmacokineticsSoil Chemical AnalysisProgress in Drug MetabolismDissolution Stability for Packaging ApplicationBentley's Textbook of

Pharmaceutics - E-BookThe Dissolution of Granular Solids in LiquidsAustralian Journal of Pharmaceutical SciencesThe Effect of Solid Dispersion Systems on the Dissolution and Oral Absorption of Poorly Soluble DrugsEffect of Complexing Agents on the Dissolution Kinetics of PrednisolonePowder Dissolution as a Tool to Estimate Particle Size and Shape Parameters of Crystalline SolidsBiopharmaceutics and Clinical PharmacokineticsHalogens—Advances in Research and Application: 2013 EditionAdvances in Automated AnalysisDrug Absorption StudiesApplied Biopharmaceutics & Pharmacokinetics

Gastrointestinal Agents—Advances in Research and Application: 2013 Edition

Issues in Biochemistry and Biomaterials / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Biochemistry and Biomaterials. The editors have built Issues in Biochemistry and Biomaterials: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Biochemistry and Biomaterials in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biochemistry and Biomaterials / 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of

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Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition

Glucocorticoids—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Glucocorticoids. The editors have built Glucocorticoids—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Glucocorticoids in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Glucocorticoids—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

DISSOLUTION RATE BEHAVIOR OF DIFFERENT SOLID PREPARATIONS OF CHOLESTEROL IN BILE ACID SOLUTIONS.

This history documents the gelatin capsule from its inception in the early 19th century, through to the 1990s. It gives an account of all aspects of the manufacture and filling of hard capsules.

Developing Solid Oral Dosage Forms

Specification of Drug Substances and Products: Development and Validation of Analytical Methods is a comprehensive and critical analysis of the requirements and approaches to setting specifications for new pharmaceutical products, with an emphasis on phase-appropriate development and validation of analytical methods. This book is intended as more than a review of new regional guidelines, existing regulatory guidance, and industry practices. It provides a hands-on guide to understanding and applying these in practice. The authors discuss critical issues, novel approaches, and future directions while also providing insight into how International Guidelines were developed and the rationale behind them. Guide to industry best practices of analytical methodologies used in the specification of new drug substances and products (e.g. DOE, QbD) Critical assessment of the application of ICH guidelines on method validation and specification setting,

written by experts involved in the development and application of the guidelines to aid understanding of requirements and what is expected by regulatory authorities Direct applicability to the day-to-day activities in drug development and the potential to increase productivity

DISSOLUTION OF ACIDIC AND BASIC COMPOUNDS FROM THE ROTATING DISK: INFLUENCE OF DIFFUSION, CONVECTION, AND REACTION.

A core subject in pharmaceutics, physical pharmacy is taught in the initial semesters of B. Pharm. The methodical knowledge of the subject is required, and is essential, to understand the principles pertaining to design and development of drug and drug products. Theory and Practice of Physical Pharmacy is unique as it fulfils the twin requirements of physical pharmacy students: the authentic text on theoretical concepts and its application including illustrative exercises in the form of practicals. Covers all the topics included in various existing syllabi of physical pharmacy Provides an integrated understanding of theory and practical applications associated with physicochemical concepts Explore the latest developments in the field of pharmaceutics Reviews the relevance of physicochemical principles in the design of dosage form Ensures proper recapitulation through sufficient end-of-chapter questions Provides valuable

learning tool in the form of multiple choice questions Multiple choice questions section especially useful for GPAT aspirants

Handbook of Preformulation

Development and Validation of Analytical Methods

Dissolution, Bioavailability & Bioequivalence

Applied Physical Pharmacy

This updated introduction to the clinical applications of pharmacokinetics looks at gastrointestinal absorption, prolonged release medication, and drug disposition. The effects of disease, weight, age, sex and genetic factors on pharmacokinetic variability and drug response are detailed. Bioequivalence and regulatory considerations for generic drug.

Essentials Of Biopharmaceutics And Pharmacokinetics

Nonsink Dissolution Kinetics of Poorly Soluble Substances Assessed in a Column Appratus

Hard Capsules

Glucocorticoids—Advances in Research and Application: 2012 Edition

Dissolution at Porous Interfaces

Annotation The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.

Dissolution Shelf Life of Hydroxypropyl Methyl Cellulose Coated Aspirin Tablets at I.C.H. Temperatures and Various Relative Humidities

Solid-state Chemistry of Drugs

independently determine solubility as well as the interfacial transport coefficient. It was found that the differences can be primarily accounted for by variations in the interfacial transport coefficient rather than by solubility variations.

The Role of the Study Director in Nonclinical Studies

A single-source reference with a broad and holistic overview of nonclinical studies, this book offers critical training material and describes regulations of nonclinical testing through guidelines, models, case studies, practical examples, and worldwide perspectives. The book: Provides a complete overview of nonclinical study organization, conduct, and reporting and describes the roles and responsibilities of a Study Director to manage an effective study Covers regulatory and scientific concepts, including international testing and Good Laboratory Practice (GLP), compliance with guidelines, and animal models Features a

concluding chapter that compiles case studies / lessons learned from those that have served as a Study Director for many years Addresses the entire spectrum of nonclinical testing, making it applicable to those in the government, laboratories and those actively involved in in all sectors of industry

Theory and Practice of Physical Pharmacy - E-Book

American Laboratory

This is a well thought-out, highly practical text covering contemporary ‘in vitro’ techniques for drug absorption studies. Starting at the molecular level of investigation, it continues with cell monolayer models (both primary and cell lines) and culminates with in situ techniques as a final testing format. In addition, chapters on high-throughput assays, in vitro-in vivo correlation, bioinformatics and regulatory issues are covered, giving a comprehensive overview of available models and techniques. Moreover, an appendix consisting of a number of practical protocols is available online, updated as needed, and should prove very helpful to apply the techniques directly to the benchside.

Applied Biopharmaceutics & Pharmacokinetics, Seventh Edition

Oral Drug Absorption

The landmark textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics—now fully updated. Explains how to detect clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them Helps you critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Chapters have been revised to reflect the latest clinical perspectives on drug performance, bioavailability, bioequivalence, pharmacokinetics, pharmacodynamics, and drug therapy The field's leading text for more than three decades, Applied Biopharmaceutics & Pharmacokinetics gets you up to speed on the basics of the discipline like no other resource. Practical problems and clinical examples with discussions are integrated within each chapter to help you apply principles to patient care and drug consultation situations. In addition, outstanding pedagogy, including chapter objectives, chapter summaries, and FAQs, plus additional application questions, identify and focus on key concepts. Written by authors who have both academic and clinical experience, Applied Biopharmaceutics & Pharmacokinetics shows you how to use raw data and formulate the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, and elimination. The book also helps you work with pharmacokinetic and biopharmaceutic parameters to design and evaluate dosage regimens of drugs. In the seventh

edition of this must-have interactive learning tool, most of the chapters are updated to reflect our current understanding of complex issues associated with safe and efficacious drug therapy.

Issues in Biochemistry and Biomaterials: 2011 Edition

Specification of Drug Substances and Products

Dissolution Technology

The need to validate an analytical or bioanalytical method is encountered by analysts in the pharmaceutical industry on an almost daily basis, because adequately validated methods are a necessity for approvable regulatory filings. What constitutes a validated method, however, is subject to analyst interpretation because there is no universally accepted industry practice for assay validation. This book is intended to serve as a guide to the analyst in terms of the issues and parameters that must be considered in the development and validation of analytical methods. In addition to the critical issues surrounding method validation, this book also deals with other related factors such as method development, data

acquisition, automation, cleaning validation and regulatory considerations. The book is divided into three parts. Part One, comprising two chapters, looks at some of the basic concepts of method validation. Chapter 1 discusses the general concept of validation and its role in the process of transferring methods from laboratory to laboratory. Chapter 2 looks at some of the critical parameters included in a validation program and the various statistical treatments given to these parameters. Part Two (Chapters 3, 4 and 5) of the book focuses on the regulatory perspective of analytical validation. Chapter 3 discusses in some detail how validation is treated by various regulatory agencies around the world, including the United States, Canada, the European Community, Australia and Japan. This chapter also discusses the International Conference on Harmonization (ICH) treatment of assay validation. Chapters 4 and 5 cover the issues and various perspectives of the recent United States vs. Barr Laboratories Inc. case involving the retesting of samples. Part Three (Chapters 6 - 12) covers the development and validation of various analytical components of the pharmaceutical product development process. This part of the book contains specific chapters dedicated to bulk drug substances and finished products, dissolution studies, robotics and automated workstations, biotechnology products, biological samples, analytical methods for cleaning procedures and computer systems and computer-aided validation. Each chapter goes into some detail describing the critical development and related validation considerations for each topic. This book is not intended to be a practical description of the analytical validation process, but more of a guide to

the critical parameters and considerations that must be attended to in a pharmaceutical development program. Despite the existence of numerous guidelines including the recent attempts by the ICH to be implemented in 1998, the practical part of assay validation will always remain, to a certain extent, a matter of the personal preference of the analyst or company. Nevertheless, this book brings together the perspectives of several experts having extensive experience in different capacities in the pharmaceutical industry in an attempt to bring some consistency to analytical method development and validation.

Applied Biopharmaceutics & Pharmacokinetics, Fifth Edition

Preformulation studies are the physical, chemical, and biological studies needed to characterize a drug substance for enabling the proper design of a drug product, whereas the effectiveness of a drug product is determined during the formulation studies phase. Though the two disciplines overlap in practice, each is a significantly distinct phase of new drug development. Entirely focused on preformulation principles, this fully revised and updated Handbook of Preforumulation: Chemical, Biological, and Botanical Drugs, Second Edition provides detailed descriptions of preformulation methodologies, gives a state-of-the-art description of each technique, and lists the currently available tools useful in providing a comprehensive characterization of a new drug entity.

Basic Pharmacokinetics

monitor the pH of the dissolution media during an experimental run. Absorbance of the dissolution media was monitored using a flow through UV spectrophotometer-data station.

Soil Chemical Analysis

Halogens—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Chlorine. The editors have built Halogens—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chlorine in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Halogens—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Progress in Drug Metabolism

The most comprehensive text on the practical applications of biopharmaceuticals and pharmacokinetics! 4 STAR DOODY'S REVIEW! "The updated edition provides the reader with a solid foundation in the basic principles of pharmacokinetics and biopharmaceutics. Students will be able to apply the information to their clinical practice and researchers will find this to be a valuable reference. This modestly priced book should be the gold standard for student use."--Doody's Review Service The primary emphasis of this book is on the application and understanding of concepts. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided, along with illustrative examples and practice problems and solutions to help the student gain skill in practical problem solving.

Dissolution Stability for Packaging Application

Knowledge of pharmacokinetics is critical to understanding the absorption, distribution, metabolism, and excretion of drugs. It is therefore vital to those engaged in the discovery, development, and preclinical and clinical evaluation of drugs, as well as practitioners involved in the clinical use of drugs. Using different approaches accessible to

Bentley's Textbook of Pharmaceutics - E-Book

The Dissolution of Granular Solids in Liquids

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's 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

Australian Journal of Pharmaceutical Sciences

Gastrointestinal Agents—Advances in Research and Application: 2013 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about ZZZAdditional Research in a compact format. The editors have built Gastrointestinal Agents—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Gastrointestinal Agents—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is

available at http://www.ScholarlyEditions.com/.

The Effect of Solid Dispersion Systems on the Dissolution and Oral Absorption of Poorly Soluble Drugs

A comprehensive textbook on the theoretical and practical applications of biopharmaceutics and pharmacokinetics The field’s leading text for more than three decades Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition provides you with a basic understanding of the principles of biopharmaceutics and pharmacokinetics and applies these principles to drug product development, drug product performance and drug therapy. The revised and updated sixth edition is unique in teaching basic concepts that relate to understanding the complex issues associated with safe and efficacious drug therapy. Written by authors who have both academic and clinical experience, Applied Biopharmaceutics & Pharmacokinetics will help you to: Understand the basic concepts in biopharmaceutics and pharmacokinetics. Use raw data and derive the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, and elimination Critically evaluate biopharmaceutic studies involving drug product equivalency and unequivalency Design and evaluate dosage regimens of drugs, using pharmacokinetic and biopharmaceutic parameters Detect potential clinical pharmacokinetic problems and apply basic

pharmacokinetic principles to solve them Practical problems and clinical examples with discussions are included in each chapter to help you apply these principles to patient care and drug consultation situations. Chapter Objectives, Chapter Summaries, and Frequently Asked Questions along with additional application questions appear within each chapter to identify and focus on key concepts. Most of the chapters have been revised to reflect our current understanding of drug product performance, bioavailability, bioequivalence, pharmacokinetics, pharmacodynamics, and drug therapy.

Effect of Complexing Agents on the Dissolution Kinetics of Prednisolone

1. Evolution of dissolution testing 5; 2. Theory of dissolution 11; 3. Theoretical concepts for the release of a drug from dosage forms 37; 4. Effect of the physicochemical properties of the drug on dissolution rate 53; 5. Factors affecting the rate of dissolution of solid dosage forms 73; 6. Effects of storage and packaging on the dissolution of drug formulations 107; 7. Factors relating to the dissolution apparatus 115; 8. Effect of the test parameters on dissolution rate 145; 9. Dissolution of suspensions 173; 10. Dissolution of topical dosage forms (creams, gels, and ointments) 189; 11. Dissolutions of suppositories 205; 12. Dissolution characteristics of controlled-release systems 215; 13. Methods for enhancement of

the drug-dissolution characteristics 265; 14. Developing a new dissolution method 285; 15. Bioavailability, definitions and historical perspective 297; 17. In vitro modeling for drug absorption 315; 18. Pharmacokinetic considerations in bioavailability studies 335; 19. Bioavailability and variations in drug blood levels 367; 20. Bioavailability and the biologic response 385; 21. Measurements of bioavailability 399; 22. General issues to be considered in conducting bioavailability studies 415; 23. Bioavailability of controlled-release dosage forms 425; 24. In vivo release and bioavailability of topical preparations 437; 25. Methods for enhancement of bioavailability 455; 26. Bioequivalence: general definitions 477; 27. Bioequivalence: case histories 481; 28. Correlation of in vitro rate of dissolution with in vivo bioavailability 491; 29. Determination of bioequivalence and its regulatory aspects 517; 30. The official bioequivalence protocols and therapeutic equivalence 533.

Powder Dissolution as a Tool to Estimate Particle Size and Shape Parameters of Crystalline Solids

This adaptation of Bentley's Textbook of Pharmaceutics follows the same goals as those of the previous edition, albeit in a new look. The content of the old edition has been updated and expanded and several new chapters, viz. Complexations, Stability Testing as per ICH Guidelines, Parenteral Formulations, New Drug Delivery

Systems and Pilot Plant Manufacturing, have been included, with an intention to make the book more informative for the modern pharmacists. The book has six sections: Section I deals with the physicochemical principles. Two new chapters: Complexations and ICH Guidelines for Stability Testing, have been added to make it more informative. Section II conveys the information regarding pharmaceutical unit operations and processes. Section III describes the area of pharmaceutical practice. Extensive recent updates have been included in many chapters of this section. Two new chapters: Parenteral Formulations and New Drug Delivery Systems, have been added. Section IV contains radioactivity principles and applications. Section V deals with microbiology and animal products. Section VI contains the formulation and packaging aspects of pharmaceuticals. Pilot Plant Manufacturing concepts are added as a new chapter, which may be beneficial to readers to understand the art of designing of a plant from the pilot plant model.

Biopharmaceutics and Clinical Pharmacokinetics

Halogens—Advances in Research and Application: 2013 Edition

Oral Drug Absorption, Second Edition thoroughly examines the special equipment and methods used to test whether drugs are released adequately when

administered orally. The contributors discuss methods for accurately establishing and validating in vitro/in vivo correlations for both MR and IR formulations, as well as alternative approaches for MR an

Advances in Automated Analysis

Designed as the core textbook for the required physical pharmacy or pharmaceutics course within the pharmacy school curriculum. With a focus on examples from pharmacy practice, this book presents the chemical and physical chemical principles fundamental to the development of medication dosage forms. Numerous case studies present relevant examples of physical chemical principles in current pharmacy practice.

Drug Absorption Studies

Includes abstracts of the papers of the 1970 Technicon International Congress, issued by the Technicon Corporation.

Applied Biopharmaceutics & Pharmacokinetics

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION