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Quality by Design for Biopharmaceuticals Biotechnology and Biopharmaceuticals The Challenge of CMC Regulatory Compliance for Biopharmaceuticals The Challenge of CMC Regulatory Compliance for Biopharmaceuticals Biopharmaceuticals Biopharmaceuticals, an Industrial Perspective Single-Use Technology in Biopharmaceutical Manufacture Modern Biopharmaceuticals Delivery Technologies for Biopharmaceuticals Biopharmaceuticals Mucosal Delivery of Biopharmaceuticals Quality Assurance for Biopharmaceuticals Process Validation in Manufacturing of Biopharmaceuticals Modern Biopharmaceuticals, 4 Volume Set Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals Process Validation in Manufacturing of Biopharmaceuticals, Third Edition Fusion Protein Technologies for Biopharmaceuticals Biopharmaceutical Drug Design and Development Chitosan-Based Systems for Biopharmaceuticals PAT Applied in Biopharmaceutical Process Development And Manufacturing Clinical Trials of Drugs and Biopharmaceuticals Biotechnology in Healthcare Freeze-drying of Pharmaceuticals and Biopharmaceuticals

Directory of Approved Biopharmaceutical Products Regulatory Practice for
Biopharmaceutical Production Understanding Biopharmaceuticals Development of
Biopharmaceutical Drug-Device Products Challenges in Protein Product Development
Biopharmaceuticals Preclinical Safety Evaluation of Biopharmaceuticals Perfusion Cell
Culture Processes for Biopharmaceuticals Biopharmaceutical Manufacturing
Biopharmaceuticals, an Industrial Perspective Immunogenicity of Biopharmaceuticals
Capillary Electrophoresis of Carbohydrates □□□□□□□□ PAREXEL's Pharmaceutical R&D
Statistical Sourcebook Biopharmaceuticals Biopharmaceuticals in Transition □□□□□□□□

Quality by Design for Biopharmaceuticals

2011-09-20

the concepts applications and practical issues of quality by design quality by design qbd is a new framework currently being implemented by the fda as well as eu and japanese regulatory agencies to ensure better understanding of the process so as to yield a consistent and high quality pharmaceutical product qbd breaks from past approaches in assuming that drug quality cannot be tested into products rather it must be built into every step of the product creation process quality by design perspectives and case studies presents the first systematic approach to qbd in the biotech industry a comprehensive resource it combines an in depth explanation of basic concepts with real life case studies that illustrate the practical aspects of qbd implementation in this single source leading authorities from the biotechnology industry and the fda discuss such topics as the understanding and development of the product s critical quality attributes cqa development of the design space for a manufacturing process how to employ qbd to design a formulation process raw material analysis and control strategy for qbd process analytical technology pat and how it relates to qbd relevant pat tools and applications for the pharmaceutical industry the uses of risk assessment and management in qbd filing qbd information in regulatory documents the application of multivariate data analysis mvda to qbd filled with vivid case studies that illustrate qbd at work in companies today quality by design is a core reference for scientists in the biopharmaceutical industry regulatory agencies and students

Biotechnology and Biopharmaceuticals

2013-09-19

biotechnology and biopharmaceuticals transforming proteins and genes into drugs second edition addresses the pivotal issues relating to translational science including preclinical and clinical drug development regulatory science pharmaco economics and cost effectiveness considerations the new edition also provides an update on new proteins and genetic medicines the translational and integrated sciences that continue to fuel the innovations in medicine as well as the new areas of therapeutic development including cancer vaccines stem cell therapeutics and cell based therapies

The Challenge of CMC Regulatory Compliance for Biopharmaceuticals

2014-07-08

this book highlights the challenges facing quality assurance quality control qa qc in today s biopharmaceutical environment and presents the strategic importance and value generated by qa qc for their involvement in control of manufacturing it will put into perspective the need for a graded approach to qa qc from early clinical trials through market approval since

the first edition published in 2004 there have been more than 50 new regulatory guidances released by the food and drug administration fda european medicines agency ema and ich that affect the cmc regulatory compliance of biopharmaceuticals also the application of biosimilars has been developed in europe and is under development in the usa the revised update will be broadened to include not only biopharmaceuticals biotech drugs but also other biologics vaccines cell therapy plasma derived proteins etc

The Challenge of CMC Regulatory Compliance for Biopharmaceuticals

2023-06-15

each year for the past three years there have been about 50 new molecular medicines approved by the united states food drug administration fda of which approximately 25 were new biopharmaceuticals over 200 recombinant proteins monoclonal antibodies antibody drug conjugates fusion proteins and fab fragments are now in the marketplace in both the united states of america usa and european union eu there are also now over 60 biosimilars available for all major classes of recombinant proteins and monoclonal antibodies in addition gene therapies using genetically engineered viruses and genetically engineered cells are now in the marketplace and continually growing this degree of change is reflected in the over 400 cmc regulatory compliance references listed in this book that were either

issued or updated since the release of the third edition deficiencies in biopharmaceutical cmc regulatory compliance rarely result in termination of a product but in can readily cause months if not years of delay in initiating clinical trials or advancing clinical development stages or even market approval in summary this book updates real world cmc deficiency examples with current examples addresses current fda and ema requirements and expectations for cmc regulatory compliance now includes cmc regulatory compliance for the new gene based biopharmaceuticals

Biopharmaceuticals

2018-09-19

biopharmaceuticals are derived from biological sources either live organisms or their active components nowadays they are mainly produced by biotechnologies biopharmaceuticals are extensively used in the treatment of various diseases such as cardiovascular metabolic neurological diseases cancer and others for which there are no available therapeutic methods with the advance of science biopharmaceuticals have revolutionized the treatment prevention and diagnosis of many patients with disabling and life threatening diseases innovative biopharmaceuticals definitely improve the life quality of patients and enhance the effectiveness of the healthcare system this book encompasses the discovery production application and regulation of biopharmaceuticals to demonstrate their research achievement prospects and challenges we expect the significance of biopharmaceuticals to

be revealed and emphasized by this book

Biopharmaceuticals, an Industrial Perspective

2013-03-09

this book provides a unique and up to date insight into the biopharmaceutical industry largely written by industrial authors its scope is multidisciplinary rendering it an ideal reference source for students undertaking advanced undergraduate or postgraduate courses in biotechnology pharmaceutical science biochemistry or medicine

Single-Use Technology in Biopharmaceutical Manufacture

2019-08-27

authoritative guide to the principles characteristics engineering aspects economics and applications of disposables in the manufacture of biopharmaceuticals the revised and updated second edition of single use technology in biopharmaceutical manufacture offers a comprehensive examination of the most commonly used disposables in the manufacture of biopharmaceuticals the authors noted experts on the topic provide the essential

medical terminology work answer key 7 edition (Download Only)

information on the principles characteristics engineering aspects economics and applications this authoritative guide contains the basic knowledge and information about disposable equipment the author also discusses biopharmaceuticals applications through the lens of case studies that clearly illustrate the role of manufacturing quality assurance and environmental influences this updated second edition revises existing information with recent developments that have taken place since the first edition was published the book also presents the latest advances in the field of single use technology and explores topics including applying single use devices for microorganisms human mesenchymal stem cells and t cells this important book contains an updated and end to end view of the development and manufacturing of single use biologics helps in the identification of appropriate disposables and relevant vendors offers illustrative case studies that examine manufacturing quality assurance and environmental influences includes updated coverage on cross functional transversal dependencies significant improvements made by suppliers and the successful application of the single use technologies written for biopharmaceutical manufacturers process developers and biological and chemical engineers single use technology in biopharmaceutical manufacture 2nd edition provides the information needed for professionals to come to an easier decision for or against disposable alternatives and to choose the appropriate system

Modern Biopharmaceuticals

2013-05-07

this collection of high profile contributions provides a unique insight into the development of novel successful biopharmaceuticals outstanding authors including nobel laureate robert huber as well as prominent company researchers and ceos present valuable insider knowledge limiting their scope to those procedures and developments with proven potential for the biotechnology industry they cover all relevant aspects from the establishment of biotechnology parks the development of successful compounds and the implementation of efficient manufacturing processes right up to the establishment of advanced delivery routes

Delivery Technologies for Biopharmaceuticals

2009-10-23

advances in biotechnology have provided scientists with an increasing number of biopharmaceuticals such as novel peptide and protein drugs as well as nucleic acid based drugs for gene therapy however successful delivery of these biopharmaceuticals is a major challenge because their molecular properties lead to poor physical and chemical stability in the body and limited membrane permeability therefore researchers are developing a range

of new delivery technologies and materials to enable these new drugs to be delivered intact to their target sites delivery technologies for biopharmaceuticals describes strategies to overcome the main barriers for successful delivery of therapeutic peptides proteins and nucleic acid based drugs or vaccines related to the site of administration and the target site many of the approaches described are reported in formulations in current clinical trials as well as in marketed products contents include challenges in delivery of biopharmaceuticals novel formulation approaches for peptide and protein injectables non viral chemical vectors and viral technology for delivery of nucleic acid based drugs immune response adjuvants and delivery systems for vaccines several examples of delivery systems for different biopharmaceuticals a critical assessment of delivery technologies for biopharmaceuticals delivery technologies for biopharmaceuticals is an essential single volume introduction to the technologies used by researchers to ensure efficient delivery of this exciting new class of drugs it will be of value to researchers and students working in drug delivery formulation biopharmaceuticals medicinal chemistry and new materials development

Biopharmaceuticals

2013-04-29

the latest edition of this highly acclaimed textbook provides a comprehensive and up to date overview of the science and medical applications of biopharmaceutical products biopharmaceuticals refers to pharmaceutical substances derived from biological sources

and increasingly it is synonymous with newer pharmaceutical substances derived from genetic engineering or hybridoma technology this superbly written review of the important areas of investigation in the field covers drug production plus the biochemical and molecular mechanisms of action together with the biotechnology of major biopharmaceutical types on the market or currently under development there is also additional material reflecting both the technical advances in the area and detailed information on key topics such as the influence of genomics on drug discovery

Mucosal Delivery of Biopharmaceuticals

2014-02-03

biopharmaceutical medicines the newest class of therapeutics are quite heterogeneous and include a range of molecules such as proteins peptides vaccines and nucleic acids with use in virtually all therapeutic fields e g cancer and infectious diseases vaccination metabolic dysfunctions and diagnostics this edited book gives a concise and up to date overview of the biological features justifying the use of different human mucosa as delivery routes for biopharmaceuticals the technological strategies that have been followed so far regarding the optimization of mucosal potentialities as well as the challenges that arise with the advent of new biopharmaceutical drugs and alternative means of administration following a brief introduction the first section addresses general aspects of the biology of mucosal tissues and their unique aspects toward beneficial or deleterious interaction with

biopharmaceuticals and their delivery systems the second part reviews the different delivery strategies that have recently been investigated for different mucosal sites the third section describes the development and clinical applications of drug delivery systems and products enclosing biopharmaceuticals for mucosal delivery with a focus on the most successful case studies of recent years the last section briefly centers on relevant aspects of the regulatory toxicological and market issues of mucosal delivery of biopharmaceuticals scientists and researchers in the fields of drug delivery material science biomedical science and bioengineering as well as professionals regulators and policy makers in the pharmaceutical biotechnology and healthcare industries will find in this book an important compendium of fundamental concepts and practical tools for their daily research and activities

Quality Assurance for Biopharmaceuticals

1994-06-21

dr jean huxsoll and a team of distinguished biotechnology industry experts from the u s and europe offer a wealth of practical guidelines to designing implementing and managing qa systems to assure that biopharmaceutical products meet standards for safety purity and potency quality assurance for biopharmaceuticals covers all important theoretical and practical concerns including detailed guidelines to meeting gmp compliance quality assurance of production quality assurance of analytical methods advanced documentation

sampling and validation techniques comprehensive coverage of regulatory issues in the u s europe and japan and much more

Process Validation in Manufacturing of Biopharmaceuticals

2023-12-18

the fourth edition of process validation in manufacturing of biopharmaceuticals is a practical and comprehensive resource illustrating the different approaches for successful validation of biopharmaceutical processes a pivotal text in its field this new edition provides guidelines and current practices contains industrial case studies and is expanded to include in depth analysis of the new process validation pv guidance from the us fda key features offers readers a thorough understanding of the key concepts that form the basis of a good process validation program for biopharmaceuticals includes case studies from the various industry leaders that demonstrate application of these concepts discusses the use of modern tools such as multivariate analysis for facilitating a process validation exercise covers process characterization techniques for scaling down unit operations in biopharmaceutical manufacturing including chromatography chemical modification reactions ultrafiltration and microfiltration and practical methods to test raw materials and in process samples providing a thorough understanding of the key concepts that form the

basis of a good process validation program this book will help readers ensure that pv is carried out and exceeds expectations fully illustrated this is a much needed practical guide for biopharmaceutical manufacturers

Modern Biopharmaceuticals, 4 Volume Set

2005-10-28

the biopharmaceutical market has come along way since 1982 when the first biopharmaceutical product recombinant human insulin was launched over 120 such products are currently being marketed around the world including nine blockbuster drugs the global market for biopharmaceuticals which is currently valued at us 41 billion has been growing at an impressive compound annual growth rate of 21 over the previous five years with over one third of all pipe line products in active development are biopharmaceuticals this segment is set to continue outperforming the total pharmaceutical market and could easily reach us 100 billion by the end of this decade

Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals

2010-08-09

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 biopharma ceuticals 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

Process Validation in Manufacturing of

Biopharmaceuticals, Third Edition

2012-05-09

process validation in manufacturing of biopharmaceuticals third edition delves into the key aspects and current practices of process validation it includes discussion on the final version of the fda 2011 guidance for industry on process validation principles and practices commonly referred to as the process validation guidance or pvg issued in final form on january 24 2011 the book also provides guidelines and current practices as well as industrial case studies illustrating the different approaches that can be taken for successful validation of biopharmaceutical processes case studies include process validation for membrane chromatography leveraging multivariate analysis tools to qualify scale down models a matrix approach for process validation of a multivalent bacterial vaccine purification validation for a therapeutic monoclonal antibody expressed and secreted by chinese hamster ovary cho cells viral clearance validation studies for a product produced in a human cell line a much needed resource this book presents process characterization techniques for scaling down unit operations in biopharmaceutical manufacturing including chromatography chemical modification reactions ultrafiltration and microfiltration it also provides practical methods to test raw materials and in process samples stressing the importance of taking a risk based approach towards computerized system compliance this book will help you and your team ascertain process validation is carried out and exceeds expectations

Fusion Protein Technologies for Biopharmaceuticals

2013-01-28

the state of the art in biopharmaceutical fusion protein design fusion proteins belong to the most lucrative biotech drugs with enbrel being one of the best selling biologics worldwide enbrel represents a milestone of modern therapies just as humulin the first therapeutic recombinant protein for human use approved by the fda in 1982 and orthoclone the first monoclonal antibody reaching the market in 1986 these first generation molecules were soon followed by a plethora of recombinant copies of natural human proteins and in 1998 the first de novo designed fusion protein was launched fusion protein technologies for biopharmaceuticals examines the state of the art in developing fusion proteins for biopharmaceuticals shedding light on the immense potential inherent in fusion protein design and functionality a wide pantheon of international scientists and researchers deliver a comprehensive and complete overview of therapeutic fusion proteins combining the success stories of marketed drugs with the dynamic preclinical and clinical research into novel drugs designed for as yet unmet medical needs the book covers the major types of fusion proteins receptor traps immunotoxins fc fusions and peptibodies while also detailing the approaches for developing delivering and improving the stability of fusion proteins the main body of the book contains three large sections that address issues key to this specialty strategies for extending the plasma half life the design of toxic proteins and utilizing fusion proteins for ultra specific targeting the book concludes with novel concepts

in this field including examples of highly relevant multifunctional antibodies detailing the innovative science commercial realities and brilliant potential of fusion protein therapeutics fusion protein technologies for biopharmaceuticals is a must for pharmaceutical scientists biochemists medicinal chemists molecular biologists pharmacologists and genetic engineers interested in determining the shape of innovation in the world of biopharmaceuticals

Biopharmaceutical Drug Design and Development

2010-01-11

this book provides a comprehensive examination of the newest biopharmaceutical drugs among the drugs discussed are ones in the categories of monoclonal antibodies for in vivo use cytokines growth factors enzymes immunomodulators thrombolytics and immunotherapies including vaccines additionally the volume examines new and emerging technologies and contains a review of the human genome project

Chitosan-Based Systems for Biopharmaceuticals

2012-02-16

chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin it

is non toxic biodegradable biocompatible and acts as a bioadhesive with otherwise unstable biomolecules making it a valuable component in the formulation of biopharmaceutical drugs chitosan based systems for biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals the book is divided in four different parts part i discusses general aspects of chitosan and its derivatives with particular emphasis on issues related to the development of biopharmaceutical chitosan based systems part ii deals with the use of chitosan and derivatives in the formulation and delivery of biopharmaceuticals and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals part iii discusses specific applications of chitosan and its derivatives for biopharmaceutical use finally part iv presents diverse viewpoints on different issues such as regulatory manufacturing and toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products as well as their patent status and clinical application and potential topics covered include chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals physical properties of chitosan and derivatives in sol and gel states absorption promotion properties of chitosan and derivatives biocompatibility and biodegradation of chitosan and derivatives biological and pharmacological activity of chitosan and derivatives biological chemical and physical compatibility of chitosan and biopharmaceuticals approaches for functional modification or crosslinking of chitosan use of chitosan and derivatives in conventional biopharmaceutical dosage forms manufacture techniques of chitosan based microparticles and nanoparticles for biopharmaceuticals chitosan and derivatives for biopharmaceutical use mucoadhesive

properties chitosan based systems for mucosal delivery of biopharmaceuticals chitosan based delivery systems for mucosal vaccination chitosan based nanoparticulates for oral delivery of biopharmaceuticals chitosan based systems for ocular delivery of biopharmaceuticals chemical modification of chitosan for delivery of dna and sirna target specific chitosan based nanoparticle systems for nucleic acid delivery functional pegylated chitosan systems for biopharmaceuticals stimuli sensitive chitosan based systems for biopharmaceuticals chitosan copolymers for biopharmaceuticals application of chitosan for anti cancer biopharmaceutical delivery chitosan based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine wound healing properties of chitosan and its use in wound dressing biopharmaceuticals toxicological properties of chitosan and derivatives for biopharmaceutical applications regulatory status of chitosan and derivatives patentability and intellectual property issues quality control and good manufacturing practice preclinical and clinical use of chitosan and derivatives for biopharmaceuticals chitosan based systems for biopharmaceuticals is an important compendium of fundamental concepts practical tools and applications of chitosan based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery biopharmaceuticals medicinal chemistry pharmacy bioengineering and new materials development

PAT Applied in Biopharmaceutical Process Development And Manufacturing

2011-12-07

as with all of pharmaceutical production the regulatory environment for the production of therapeutics has been changing as a direct result of the us fda initiated quality by design qbd guidelines and corresponding activities of the international committee for harmonization ich given the rapid growth in the biopharmaceutical area and the complexity of the molecules the optimum use of which are still being developed there is a great need for flexible and proactive teams in order to satisfy the regulatory requirements during process development process analytical technologies pat applied in biopharmaceutical process development and manufacturing have received significant attention in recent years as an enabler to the qbd paradigm pat applied in biopharmaceutical process development and manufacturing covers technological advances in measurement sciences data acquisition monitoring and control technical leaders present real life case studies in areas including measuring and monitoring raw materials cell culture purification and cleaning and lyophilization processes via advanced pat they also explore how data are collected and analyzed using advanced analytical techniques such as multivariate data analysis monitoring and control in real time invaluable for experienced practitioners in pat in biopharmaceuticals this book is an excellent reference guide for regulatory officials and a

vital training aid for students who need to learn the state of the art in this interdisciplinary and exciting area

Clinical Trials of Drugs and Biopharmaceuticals

2005-09-19

the pharmaceutical industry is on the verge of an exciting and challenging century advances in pharmaceutical sciences have dramatically changed the processes of discovery and development of new therapeutic drugs and in turn resulted in an extraordinary increase in the potential prophylactic and therapeutic interventions in this atmosphere an

Biotechnology in Healthcare

1998

molecular and cellular biology to medicine

Freeze-drying of Pharmaceuticals and

Biopharmaceuticals

2008

aimed at product and process developers in the biopharmaceutical industry and academia
this is the first book to describe freeze drying as related to the pharmaceutical industry

Directory of Approved Biopharmaceutical Products

2004-08-27

biopharmaceuticals the term for genetically engineered therapeutic proteins monoclonal antibodies and nucleic acid based products have become an increasing part of the pharmaceutical armament while this category of drugs accounts for approximately 25 of all new drugs coming to market very few references exist that review these commercially available products until now accessing data on the list of currently approved biopharmaceuticals has been laborious and patchy directory of approved biopharmaceutical products brings together key information on various aspects of these compounds presenting a brief summary of each biopharmaceutical currently approved for medical use each summary includes the scientific and trade name year and regions approved approved indications manufacturer marketing right method of manufacture scientific overview and therapeutic properties based on information gathered from regulatory agencies and

pharmaceutical manufacturers the book presents the most comprehensive data currently available in a single convenient volume this comprehensive and consistent approach will save professionals in the pharmaceutical industry hours spent trawling the literature and provides a singular resource for future reference

Regulatory Practice for Biopharmaceutical Production

1994-07-27

biotechnology represents a novel and expanding international industry bound by new and ever changing legislature this text provides a comprehensive overview of product specific international and country specific licensing requirements and general regulatory issues in biotechnology

Understanding Biopharmaceuticals

1999-12-31

understanding biopharmaceuticals manufacturing and regulatory issues offers exceptionally broad coverage of the biopharmaceutical industry from the commercial regulatory clinical and manufacturing points of view it provides a detailed analysis of the market for biopharmaceuticals and reviews the activities required to take a biopharmaceutical product

from the laboratory to the marketplace industry experts discuss the status of the biopharmaceutical market in terms of approved recombinant proteins vaccines and monoclonal antibodies they also explore the impact that the human genome sequencing project and associated activities will have on the market and the prospects for biogeneric and second generation versions of certain drugs numerous specific examples and case histories support the text

Development of Biopharmaceutical Drug-Device Products

2020-04-24

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

medical terminology work answer key 7 edition (Download Only)

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 for development 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

Challenges in Protein Product Development

2019-07-17

the goal is to provide a comprehensive reference book for the preclinical discovery and development scientist whose responsibilities span target identification lead candidate selection pharmacokinetics pharmacology and toxicology and for regulatory scientists whose responsibilities include the evaluation of novel therapies from the afterword by anthony d dayan proper preclinical safety evaluation can improve the predictive value lessen the time and cost of launching new biopharmaceuticals and speed potentially lifesaving drugs to market this guide covers topics ranging from lead candidate selection to establishing proof of concept and toxicity testing to the selection of the first human doses with chapters contributed by experts in their specific areas preclinical safety evaluation of biopharmaceuticals a science based approach to facilitating clinical trials includes an overview of biopharmaceuticals with information on regulation and methods of production discusses the principles of ich s6 and their implementation in the u s europe and japan covers current practices in preclinical development and includes a comparison of safety assessments for small molecules with those for biopharmaceuticals addresses all aspects of the preclinical evaluation process including the selection of relevant species safety toxicity

endpoints specific considerations based upon class and practical considerations in the design implementation and analysis of biopharmaceuticals covers transitioning from preclinical development to clinical trials this is a hands on straightforward reference for professionals involved in preclinical drug development including scientists toxicologists project managers consultants and regulatory personnel

Biopharmaceuticals

1998

this book is a monography about perfusion cell cultures for the production of biopharmaceuticals such as therapeutic proteins i e biomolecules like monoclonal antibodies and describes the fundamentals design and operation of these processes context is given in the first chapters to understand the state of the art of the technology we then give an overview of the challenges and objectives in operating mammalian cell perfusion cultures and provide guidelines for the design and setup of lab scale bioreactor systems and the required control structure to achieve stable operation scale down devices and pat tools are described in the context of continuous manufacturing and guidelines for process optimization are given using a variety of case studies to illustrate different approaches scale up is also adressed with a strong focus on bioreactor aeration and mixing shear stress and cell retention device finally a general introduction for the application of mechanistic and statistic models in bioreactor process development and optimization is

given in the last chapter

Preclinical Safety Evaluation of Biopharmaceuticals

2013-03-07

biopharmaceuticals medicines made by or from living organisms including cells from living organisms are extremely effective in treating a broad range of diseases their importance to human health has grown significantly over the years as more biopharmaceutical products have entered the market and now the biggest selling drugs in the world are biopharmaceuticals biopharmaceutical manufacturing principles processes and practices provides concise comprehensive and up to date coverage of biopharmaceutical manufacturing written in a clear and informal style the content has been influenced by the authors substantial industry experience and teaching expertise that expertise enables the authors to address the many questions posed over the years both by university students and professionals with experience in the field consequently the book will appeal both to undergraduate or graduate students using it as a textbook and specialized industry practitioners seeking to understand the big picture of biopharmaceutical manufacturing this book

Perfusion Cell Culture Processes for Biopharmaceuticals

2020-08-06

this book provides a unique and up to date insight into the biopharmaceutical industry largely written by industrial authors its scope is multidisciplinary rendering it an ideal reference source for students undertaking advanced undergraduate or postgraduate courses in biotechnology pharmaceutical science biochemistry or medicine

Biopharmaceutical Manufacturing

2021-09-07

immunogenicity of biopharmaceuticals is the first book to comprehensively address the potential of an immune response to biopharmaceuticals it is intended to give a broad overview of the current state of the art regarding this subject the chapters range from an overview of the immune system and factors that may trigger the immune system via detection of antibodies and clinical implications to various case examples and the regulatory view on immunogenicity

Biopharmaceuticals, an Industrial Perspective

1999-09-30

simple carbohydrates complex oligosaccharides and polysaccharides all belong to a class of ubiquitous macro molecules that exhibit a wide range of biological functions and the recent advent of enhanced enzymatic chemical and analytical tools used to study these sugars has inaugurated a genuine explosion in the field of glycomics specifically it has led to a deeper understanding of how specific sugar structures modulate cellular phenotypes and that breakthrough has led to the discovery of new pharmaceuticals for the treatment of many serious diseases such as cancer the subsequent rapid expansion of this research holds high promise for future therapeutic regimens and capillary electrophoresis ce refers to the range of related separation techniques that are integral to this vital research ce uses narrow bore fused silica capillaries to separate a complex array of large and small molecules and capillary electrophoresis of carbohydrates offers a comprehensive look at the latest breakthroughs and improvements in ce and ce techniques applied to monosaccharides up to complex oligosaccharides and polysaccharides it begins with an overview of the application of ce and ce mass spectrometric in the analysis of simple carbohydrates without any previous derivatization step before discussing various detection techniques such as spectrophotometric detection electrochemical detection and other less common techniques it then covers in detail an array of related topics and numerous applications it is an essential text for anyone exploring the myriad possibilities of this rapidly expanding field

pharmaceutical science or medicine its scope also renders it an ideal reference for those already employed in the bio pharmaceutical sector who wish to gain a better overview of the industry in which they work

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2009-01

PAREXEL's Pharmaceutical R&D Statistical Sourcebook

2001

Biopharmaceuticals

1998-06-18

Biopharmaceuticals in Transition

1990

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2005

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