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provides data on the additives used to convert pharmacologically active compounds into dosage forms suitable for administration to patients data includes nonproprietary names functional category synonyms chemical names and cas registry number empirical formula molecular weight structural formula commercial availability method of manufacture description pharmacopeial specifications typical properties stability and storage conditions incompatibilities safety handling precautions regulatory acceptance applications in pharmaceutical formulation or technology use related substances comments

and specific references

this is the second edition of a work on pharmaceutical excipients it has been expanded and revised to include 203 monographs for pharmacopoeital and non pharmacopoeital excipients the appendices include a substantial suppliers directory all the physical properties of excipients are included

an internationally acclaimed reference work recognized as one of the most authoritative and comprehensive sources of information on excipients used in pharmaceutical formulation with this new edition providing 340 excipient monographs incorporates information on the uses and chemical and physical properties of excipients systematically collated from a variety of international sources including pharmacopeias patents primary and secondary literature websites and manufacturers data extensive data provided on the applications licensing and safety of excipients comprehensively cross referenced and indexed with many additional excipients described as related substances and an international supplier s directory and detailed information on trade names and specific grades or types of excipients commercially available

this book provides an overview of excipients their functionalities in pharmaceutical dosage forms regulation and selection for pharmaceutical products formulation it includes development characterization methodology applications and up to date advances through the perspectives of excipients developers users and regulatory experts covers the sources characterization and harmonization of excipients essential information for optimal excipients selection in pharmaceutical development describes the physico chemical properties and biological effects of excipients discusses chemical classes safety and toxicity and formulation addresses recent efforts in the standardization and harmonization of excipients

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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

describes the chemical and physical properties of pharmaceutical excipients each monograph contains nonproprietary names synonyms chemical name and cas registry number empirical formula and molecular weight structural formula functional category applications in pharmaceutical formulation or technology description pharmacopeial specifications typical properties stability and storage conditions incompatibilities method of manufacture safety handling precautions regulatory status pharmacopeias related substances comments specific references general references and authors

meeting the need for a hands on guide elucidating the role of molecular spectroscopy in the physical characterization of pharmaceutical solids two experts from the industry gather theoretical discussions of infrared raman and nuclear magnetic resonance spectroscopy they provide recommendations on spectral data acquisition techniques and include 600 spectra for 300 of the most commonly used excipients complete with references equations tables and a cas registry number index the book covers the drug development process including chemical identification of substances investigative studies competitor analysis problem solving activities reproduction of spectral data and more

a comprehensive uniform guide to the uses properties and safety of pharmaceutical excipients and is an essential reference source for those involved in the development production control or regulation of pharmaceutical preparations features of this edition contains 210 excipient monographs collects together essential data of physical properties of excipients scanning electron photomicrographs included for many excipients contains information from various international sources also includes laboratory data determined specifically for the handbook and personal observations contains information on the safe use and potential toxicity of the materials all monographs in the handbook are thoroughly cross referenced and indexed so that excipients may be identified by either chemical non proprietary or trade names written by over 120 pharmaceutical scientists expert in pharmaceutical formulation or excipient manufacture

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to facilitate the development of novel drug delivery systems and biotechnology oriented drugs the need for new yet to be developed and approved excipients continues to increase excipient development for pharmaceutical biotechnology and drug delivery systems serves as a comprehensive source to improve understanding of excipients and forge potential new avenues for regulatory approval this book

presents detailed up to date information on various aspects of excipient development testing and technological considerations for their use it addresses specific details such as historical perspective preclinical testing safety and toxicology evaluation as well as regulatory quality and utility aspects the text also describes best practices for use of various functional excipients and extensive literature references for all topics

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pharmaceutical excipients is a comprehensive uniform guide to the uses properties and safety of pharmaceutical excipients and is an essential reference source for those involved in the development production control or regulation of pharmaceutical preparations since many pharmaceutical excipients are also used in other applications pharmaceutical excipients will also be of value to persons with an interest in the formulation or production of confectionery cosmetics and food products

this book reviews the history regulatory status pharmacopeial specifications and harmonization of pharmaceutical excipients in the united states and europe and provides a comprehensive understanding of the current scientific basis for safety evaluation and risk assessment examines excipients as a unique class of products and explores new procedures for determining toxicity a timely and unique addition to the pharmaceutical literature containing over 570 citations that support and enhance the text excipient toxicity and safety identifies the differences between excipients inactive ingredients food ingredients and drug products evaluates issues of dose administration species selection and study design for various routes of exposure provides detailed information on the historical uses of excipients in drug formulations clarifies the safety committee of the international pharmaceutical excipients council s ipec guidelines and technical specifications for conducting tests for each route of exposure explains how data generated in toxicity models are applied to identify hazards in drug formulations details exposure assessment to link hazard identification with risk considers the requirements and importance of purity specifications and much more excipient toxicity and safety is a blue ribbon reference ideal for pharmacists toxicologists pharmacologists analytical chemists quality control quality assurance and regulatory compliance managers and upper level undergraduate and graduate students in these disciplines

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the current scientific basis for safety evaluation and risk assessment examines excipients as a unique class of products and explores new procedures for determining toxicity a timely and unique addition to the pharmaceutical literature containing over 570 citations that support and enhance the text excipient toxicity and safety identifies the differences between excipients inactive ingredients food ingredients and drug products evaluates issues of dose administration species selection and study design for various routes of exposure provides detailed information on the historical uses of excipients in drug formulations clarifies the safety committee of the international pharmaceutical excipients council's ipec guidelines and technical specifications for conducting tests for each route of exposure explains how data generated in toxicity models are applied to identify hazards in drug formulations details exposure assessment to link hazard identification with risk considers the requirements and importance of purity specifications and much more excipient toxicity and safety is a blue ribbon reference ideal for pharmacists toxicologists pharmacologists analytical chemists quality control quality assurance and regulatory compliance managers and upper level undergraduate and graduate students in these disciplines

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

plant polysaccharides as pharmaceutical excipients explores innovative techniques and applications of plant derived polysaccharides as pharmaceutical excipients plant polysaccharides are sustainable renewable and abundantly available offering attractive properties in terms of water solubility swelling ability non toxicity and biodegradability these qualities have resulted in extensive exploration into their applications as excipients in a variety of pharmaceutical dosage forms this book takes a comprehensive application oriented approach drawing on the very latest research that includes sources classification and extraction methods of plant polysaccharides subsequent chapters focus on plant polysaccharides for individual pharmaceutical applications enabling the reader to understand their preparation for specific targeted uses throughout the book information is supported by illustrations chemical structures flow charts and data tables providing a clear understanding finally future perspectives and challenges are reviewed and discussed explains sources classifications extraction methods and biocompatibility of plant polysaccharides guides the reader through properties and preparation methods of plant polysaccharides as pharmaceutical excipients covers a broad range of cutting edge applications with each chapter targeting a specific use

this book offers an in depth exploration of the latest advancements in pharmaceutical excipients by addressing the growing need for sustainable and biocompatible options the book will covers a wide

range of topics including the extraction and characterization of natural polymers plant derived excipients marine polymers polysaccharides proteins peptides lipids gums and mucilages it emphasizes their applications in solid dosage forms controlled release systems and oral drug delivery additionally the volume discusses bioavailability enhancement and regulatory aspects making it a vital resource for understanding the potential and challenges of natural excipients in pharmaceuticals the next edition innovative pharmaceutical excipients biomaterials and innovations is also planned and in progress the main topics covered in this book are crucial for advancing drug delivery technologies enhancing therapeutic efficacy and ensuring patient safety by integrating natural and biomaterial based excipients the book addresses the industry s need for more effective biocompatible and sustainable solutions researchers and professionals will find valuable information on how to overcome the limitations of synthetic excipients improve drug bioavailability and develop innovative drug delivery systems targeted at pharmaceutical scientists formulators researchers and regulatory professionals this book is an essential resource for anyone involved in drug development and delivery it aims to equip readers with the knowledge and tools needed to leverage natural and biomaterial based excipients for cutting edge pharmaceutical applications

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