

Lyophilization And Freeze Drying

Feroz Jameel

Freeze-drying/lyophilization of Pharmaceutical and Biological Products Louis Rey, Joan Christine May, 1999
Highlights the application of freeze-drying to pharmaceuticals-illustrating practical & industry-tested methods of preserving & reactivating delicate biologicals & biochemicals. Discusses the basic principles & engineering aspects of lyophilization, & also the role of bulking agents, additives, cryoprotectants, antioxidants, free radicals, & other products that protect the biological integrity of active substances during freezing, drying, & storage.

Freeze-Drying/Lyophilization of Pharmaceutical and Biological Products, Third Edition Louis Rey, Joan C. May, 2010-06-15 Freeze-drying, or lyophilization, is a well established technology used in the preservation of numerous pharmaceutical and biological products. This highly effective dehydration method involves the removal of water from frozen materials via the direct sublimation of ice. In recent years, this process has met with many changes, as have the regulations that impact lyophilization practices. This volume addresses these changes with revised chapters on emerging developments in lyophilization technology, research, and industry procedures. Providing both a scientific and industrial perspective, this comprehensive text is a valuable resource for all those who use freeze-drying technology.

Freeze-Drying/Lyophilization Of Pharmaceutical & Biological Products, Revised and Expanded Louis Rey, Joan C. May, 2004-01-21 Thoroughly acquainting the reader with freeze-drying fundamentals, Freeze-Drying/Lyophilization of Pharmaceutical and Biological Products, Second Edition carves practical guidelines from the very latest theoretical research, technologies, and industrial procedures. It delineates the best execution of steps from closure preparation and regulatory control of products to equipment sterilization and process validation. With 13 new chapters providing state-of-the-art information, the book unveils innovations currently advancing the field, including LYOGUARD® packaging for bulk freeze-drying and the irradiation of pharmaceutical and biological products.

Freeze Drying Or Lyophilization Muhammad Waseem Akbar, 2020-12-31 Book Description Freeze drying has many applications in the Food and Pharmaceutical industry. This book is an authentic and supreme emblem of quality that covers the basic concepts related to the lyophilization process. Review of almost all the relevant books and scientific journals is made to make the book error-free. Specifically, this book focusses on the freeze-drying process and their operating parameters for the agricultural products. I want to especially thanks to Prof. Dr Yongbin Han, Department of Agricultural

Products Processing and Storage Engineering, School of Food Science and Technology, Nanjing Agricultural University, China; to help me to complete this book.

Key Features: -Introduction to Freeze Drying Technique-Defining of all related Process Parameters and Variables-Recent Researches in the Freeze-Drying Field-Chemistry of Agricultural Products and their Thermal Properties-Disadvantages of Freeze-Drying Technique-Different Mathematical Models proposed by different Researchers and their Components

What will you learn? After reviewing this book, you will be able to understand the freeze-drying technique and all related terminologies. Raw material treatment, it's freezing, primary and secondary drying; all these operations should be carried out under critical considerations to dry the product efficiently. Product quality is the ultimate goal in this process and it can best achieve using freeze-drying. Thermal properties and the nature of the raw material may change the operating parameters for each of the product. But specifically, this book focuses on the freeze-drying process for agricultural products.

Who is this Book for? This book is for: -Food Engineers -Freeze-drying researchers-Chemical Engineers (Those who are serving food industries as lab chemist, QC officers, and R&D officers) -Food nutritionists -Food professionals (Those who are working in food industries in freeze-drying related departments as quality officers, lab supervisors, product development officers, product audit chemists, and vicinities) -Food production compliance staff

Table of Contents -Abstract-Introduction to Freeze Drying-Chemistry of Agricultural Products-Freeze Drying Stages-Freeze Drying Process Parameters -Thermal Properties of food-Disadvantages of Freeze-Drying Process-Components of Freeze Dryer-Mathematical Modeling-Conclusion-Nomenclature-References

About this Author Muhammad Waseem Akbar is a food engineer by education. He is expert in nutritional, health and processing courses. Drying is a preservation technique. He has a special interest in the freeze-drying technique. This is one of the most emerging drying technique and has the potential to produce quality products with an extended shelf life for years. The author has written multiple books in the food science and engineering domain.

Freeze-Drying Georg-Wilhelm Oetjen, Peter Haseley, 2008-01-08 Many modern pharmaceutical and biological products, e.g. blood derivatives, vaccines, cytostatic drugs, antibiotics, bacteria cultures but also consumer goods such as soluble coffee are freeze-dried to transform perishable substances into a form that can be stored and reconstituted to their almost original state without loss of quality. The book describes the up-to-date fundamentals of freeze-drying, not just presenting the process in all its seven steps theoretically, but explaining it with many practical examples. Many years of experience in freeze-drying allow the authors to supply valuable criteria for the selection of laboratory, pilot and production plants, discussing the advantages, drawbacks and limitations of different plant designs. In this second, completely revised edition, process and plant automation are introduced in a separate section and methods to transfer pilot plant qualifications and process data to production are presented. The guidelines for process and plant evaluation and qualifications have been updated and enlarged. Trouble shooting is concentrated in a section of its own and literature has been updated with 100 new quotations to include references as recent as 2002, and 100 new tables and figures have been added.

Principles and Practices of Lyophilization in Product Development and Manufacturing Feroz Jameel, 2023-04-24 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), Chimeric Antigen Receptor - Modified T cells (CART) that are currently being used as therapeutic agents for immunology and oncology disease conditions. In addition to other pharmaceuticals and biopharmaceuticals, all these novel formats are fragile with respect to their stability/structure under processing conditions meaning marginal stability in the liquid state and often require lyophilization to enhance their stability and shelf-life. This book contains chapters/topics that will describe every aspect of the lyophilization process and product development and manufacturing starting from the overview of lyophilization process, equipment required, characterization of the material, design and development of the formulation and lyophilization process, various techniques for characterization of the product, scale-up/tech-transfer and validation. It also describes the application of CFD coupled with mathematical modeling in the lyophilization process and product development, scale-up, and manufacturing. Additionally, Principles and Practice of Lyophilization Process and Product Development contains an entire dedicated section on "Preservation of Biologicals" comprised of nine chapters written by experts and including case studies.

Freeze-drying of Pharmaceuticals and Biopharmaceuticals Felix Franks, Tony Auffret, 2007-10-31 Freeze-drying, in the past popular in the food industry, has more recently been adopted by the pharmaceutical industry as a standard method for the production of stable solid preparations. Freeze-drying of Pharmaceuticals and Biopharmaceuticals is the first book to specifically describe this process, as related to the pharmaceutical industry. The emphasis of this book is on the properties of the materials processed, how effective formulations are arrived at, and how they are stored and marketed. Beginning with a historical overview of the process, Freeze-drying of Pharmaceuticals and Biopharmaceuticals briefly describes the processes and equipment involved, including: the physics, chemistry and biochemistry associated with freezing, aspects of formulation development, primary and secondary drying; the economics and engineering of scaling up; and, most importantly, attributes of the dried product. It also discusses in detail the science behind freeze-drying, such as the properties of crystalline and amorphous solids. The book concludes with selected case studies and discusses the future of freeze-drying, advances in alternative drying methods, and concludes with an extensive bibliography. This book, written by a leading expert in the field, is aimed primarily at product and process developers in the biopharmaceutical industry and academia.

Lyophilization Thomas A. Jennings, 1999-08-31 Finding consistent, analytical discussions of processes and principles of lyophilization can be challenging and often frustrating. The first resource to gather information about the field, Lyophilization: Introduction and Basic Principles is still the book to have on lyophilization. Presenting information in an easy-to-read style, the book comprehensively

Freeze Drying of Pharmaceutical Products Davide Fissore, Roberto Pisano, Antonello Barresi, 2019-10-24 Freeze Drying of

Pharmaceutical Products provides an overview of the most recent and cutting-edge developments and technologies in the field, focusing on formulation developments and process monitoring and considering new technologies for process development. This book contains case studies from freeze dryer manufacturers and pharmaceutical companies for readers in industry and academia. It was contributed to by lyophilization experts to create a detailed analysis of the subject matter, organically presenting recent advancements in freeze-drying research and technology. It discusses formulation design, process optimization and control, new PAT-monitoring tools, multivariate image analysis, process scale-down and development using small-scale freeze-dryers, use of CFD for equipment design, and development of continuous processes. This book is for industry professionals, including chemical engineers and pharmaceutical scientists.

Lyophilization of Biopharmaceuticals Henry R. Costantino, Michael J. Pikal, 2005-12-05 Humans have been experimenting with lyophilization, or freeze-drying, as a method to preserve biological structures for over a thousand years. This comprehensive volume, intended for scientists in both academia and industry, covers a wide range of topics relevant to the formulation of peptide and protein drugs in the freeze-dried state.

Freeze Drying of Food Products Roji Balaji Waghmare, Manoj Kumar, Parmjit Singh Panesar, 2024-01-08 FREEZE DRYING OF FOOD PRODUCTS An accessible guide to safely dehydrating food Freeze drying, or lyophilization, is a method for dehydrating food or other substances through the use of pressure instead of heat. This allows for the preservation and storage of high-value food products without altering their essential properties or causing a reduction in quality or value. For these reasons, freeze drying is the most reliable method for preserving and distributing high-quality products. Freeze Drying of Food Products provides a concise, accessible overview of freeze-drying techniques and their modern applications. Beginning with the basic principles and processes of freeze drying, it incorporates specific discussion of freeze-drying different categories of food products, before moving to an analysis of recent developments in freeze-drying technology. The result is a key publication in the fight to extend the shelf-life of food products and expand the distribution of high-quality freeze-dried foods. Freeze Drying of Food Products readers will also find: An editorial team with a wide range of pertinent research experience Detailed discussion of different freeze-drying processes such as vacuum drying, atmospheric drying, and spray drying Commercial applications of freeze-dried food products Freeze Drying of Food Products is ideal for researchers and industry professionals involved in food production, food distribution, or food biotechnology, as well as students studying these and other related fields.

Freeze-drying of Foods Geraldine Antoinette Corridon, 1963

Good Pharmaceutical Freeze-Drying Practice Peter Cameron, 1997-06-30 This text is devoted to pharmaceutical freeze-drying in all its forms and in all its technological variations. Whether you freeze-dry nonsterile tablets or you lyophilize injectables, this book covers all the technological and regulatory requirements. Written by a panel of leading practitioners in

the pharmaceutical industry -- production experts,

Lyophilization (freeze Drying) in the Food Industry Richard G. Oakes,1961

Freeze-drying/lyophilization of Pharmaceutical and Biological Products Louis Rey,Joan Christine May,2004

Selected Writings on Freeze-drying of Foods Kermit Bird,1964

Freeze-drying Technology in Pharmaceutical and Biomedical Product Development Dalapathi Gugulothu,Sumit Sharma,Meenakshi Kanwar Chauhan,2025-09-28 The book presents a comprehensive summary of the advances in methods, applications and challenges in Freeze-drying Technology for pharmaceutical product development. Freeze drying, sometimes referred to as lyophilization, is an essential method in biomedical and pharmaceutical industries that allows for extremely accurate preservation of sensitive biological components. This book highlights freeze drying operation, the different types of freeze-dryers, development of the freeze-drying cycle, and characterization of freeze-dried goods. It also explores the crucial connection between freeze drying and colloidal dispersions' stability, illuminating the complex interactions between formulation composition, processing variables, and stability of the final product. It focuses on the benefits of this method for stabilizing essential biopharmaceuticals such as probiotics, recombinant proteins and monoclonal antibodies by preventing aggregation and degradation and sustaining their therapeutic effectiveness for longer periods of time. Apart from the chemistry, operations and benefits, this book explores new possibilities for precisely and deeply describing freeze-dried products by discussing the most recent developments in analytical methods. The audience for this book will comprise of researchers, clinicians, graduate students, and professionals in biotechnology and pharmaceutical industries. This book also serves as a valuable resource for educators by providing them information that they can incorporate into their curricula for teaching pharmaceutical formulation and drug delivery.

Freeze-drying, Drying by Sublimation Earl William Flosdorf,1949 Gefriertrocknung.

Freeze-drying of Foods Kermit Bird,1964

Freeze-Drying of Pharmaceutical and Food Products Tse-Chao Hua,Bao-Lin Liu,Haimei Zhang,2010-07-30 Freeze-drying is an important preservation technique for heat-sensitive pharmaceuticals and foods. Products are first frozen, then dried in a vacuum at low temperature by sublimation and desorption, rather than by the application of heat. The resulting items can be stored at room temperature for long periods. This informative text addresses both principles and practice in this area.The first chapter introduces freeze-drying. The authors then review the fundamentals of the technique, heat-mass transfer analyses, modelling of the drying process and the equipment employed. Further chapters focus on freeze-drying of food, freeze-drying of pharmaceuticals and the protective agents and additives applied. The final chapter covers the important subjects of disinfection, sterilization and process validation.Freeze-drying of pharmaceutical and food products is an essential reference for food, pharmaceutical and refrigeration engineers and scientists with an interest in preservation

techniques. It will also be of use to students in these fields. - Addresses the principles and practices used in this important preservation technique - Explains the fundamentals of heat-mass transfer analysis, modelling and the equipment used - Discusses the importance of disinfection, sterilization and process validation

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