1. Record Nr. UNINA990005287600403321

Autore	Bullinger, Heinrich <1504-1575>
Titolo	1.: Januar 1533-April 1557 / Heinrich Bullinger ; herausgegeben von Traugott Schiess
Pubbl/distr/stampa	Nieuwkoop, : B. De Graaf, 1968
Edizione	[2.unveränderte Auflage]
Descrizione fisica	XCI, 481 p. ; 23 cm
Locazione	FLFBC
Collocazione	ST.REL. 18-E 11a
Lingua di pubblicazione	Tedesco Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911021968003321

Autore	Gugulothu Dalapathi
Titolo	Freeze-drying Technology in Pharmaceutical and Biomedical Product Development : Impact, Progress and Challenges of Lyophilization / / edited by Dalapathi Gugulothu, Sumit Sharma, Meenakshi Kanwar Chauhan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819502219 9789819502202
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (503 pages)
Collana	Biomedical and Life Sciences Series
Altri autori (Persone)	SharmaSumit Kanwar ChauhanMeenakshi
Disciplina	615.6
Soggetti	Drug delivery systems Vaccines - Biotechnology Biomaterials Biotechnology Nanobiotechnology Materials - Analysis Colloids Drug Delivery Biomaterials-Vaccines

	Materials Characterization Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction to Freeze Drying, its Operation, and the Different Types of Freeze Dryers -- Chapter 2. Development of the Freeze-Drying Cycle, Cryoprotectant Selection, and Characterization.- Chapter 3. New physical methods for characterization of freeze-dried goods -- Chapter 4. Impact of Freeze-Drying on Pharmaceutical Product's Morphology, Physical Characteristics, and In Vitro Release Kinetics -- Chapter 5. Stability of Colloidal Dispersions Using Freeze-Drying Technology -- Chapter 6. Progress and Challenges in Enhancing the Stability of Targeted Drug Delivery Vehicles.-Chapter 7. Use of Freeze Drying for Pharmaceutical Microencapsulation -- Chapter 8. Freeze drying of Pharmaceutical products for injectable and oral use -- Chapter 9. Palatalisation of pharmaceuticals using freeze-drying technology -- Chapter 10. Solid-state delivery and stabilization of therapeutic proteins using freeze-drying technology -- Chapter 11. Using Freeze-Drying to Stabilize Formulations of Monoclonal Antibodies -- Chapter 12. Freeze Drying of Vaccines to Increase Immunity -- Chapter 13. Enhanced Preservation of Stem Cell-Derived Extracellular Vesicles Through Freeze-Drying -- Chapter 14. Development of a hydrogel-nanofibrous scaffold via freeze-drying -- Chapter 15. Freeze-drying: Increasing probiotic stability.
Sommario/riassunto	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.