



Humana Press

1st
edition

1st ed. 2019, XIV, 382 p.
188 illus., 148 illus. in color.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4939-8927-0

£ 149,99 | CHF 200,50 | 169,99 € |
186,99 € (A) | 181,89 € (D)

Available

Discount group

Standard (0)

Product category

Contributed volume

Series

Methods in Pharmacology and Toxicology

Biomedicine : Pharmacology / Toxicology

Ward, Kevin R., Matejtschuk, Paul (Eds.), Biopharma Process Systems Ltd., Winchester, UK

Lyophilization of Pharmaceuticals and Biologicals

New Technologies and Approaches

- Includes cutting-edge techniques
- Provides step-by-step detail essential for reproducible results
- Contains key implementation advice from the experts

This detailed volume brings together leading practitioners in the freeze-drying community to address recent progress, not only in new analytical tools and applications of the data derived in cycle design but also in the manufacturing of lyophilized products in the healthcare sector – whether these be therapeutics, vaccines or diagnostic products – and indeed the equipment to deliver this scale of freeze-drying. Areas of focus include analytical and formulation issues, process monitoring and control, as well as post-lyophilization analysis. Written for the Methods in Pharmacology and Toxicology series, chapters include the type of expert advice that leads to superior results in the lab. Authoritative and practical, *Lyophilization of Pharmaceuticals and Biologicals: New Technologies and Approaches* serves as an ideal guide for researchers working in or just seeking an update on this rapidly changing field.

Order online at [springer.com/booksellers](https://www.springer.com/booksellers)

Springer Nature Customer Service Center GmbH

Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-1-4939-8927-0 / BIC: MMG / SPRINGER NATURE: SCB21007

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**