



A Guide to Protein Isolation

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Dennison, Clive.,
author

Springer Netherlands :
Imprint: Springer,
2003

Libros electrónicos

Monografía

The logic of the overall approach to protein isolation is explained and the physical principles of each separation method are made clear by the use of simple models and analogies drawn from everyday experiences. The author's aim has been to deepen the readers' insight into protein isolation methods, so that they may tackle new problems and perhaps devise new approaches to old problems. Many of the methods described are drawn from the author's own research and are thus uniquely described here; examples are three-phase partitioning, non-linear electrophoresis and a simple approach to buffer making. In this 2nd edition, the treatment of the basic physical principles has been expanded and clarified, the importance of ionic strength in measuring enzyme pH optima is emphasised and a computer program for the calculation of buffers of defined ionic strength is provided. The section on three-phase partitioning has been expanded to include the latest research findings on the use of t-butanol to inhibit enzymes and minimise homogenisation artefacts, the treatment of HPLC has been expanded and the most common practical methods are explained in detail in a new chapter. Additional study questions are provided, as are the answers to all study questions

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Título: A Guide to Protein Isolation recurso electrónico] by Clive Dennison

Edición: 2nd ed

Editorial: Dordrecht Springer Netherlands Imprint: Springer 2003

Descripción física: XVII, 249 p. online resource

Mención de serie: Chemistry and Materials Science (Springer-11644) Focus on Structural Biology 1571-4853 3

Documento fuente: Springer eBooks

Contenido: 1 Basic physical concepts applicable to the isolation of proteins -- 2 An overview of protein isolation -- 3 Assay, extraction and subcellular fractionation -- 4 Concentration of the extract -- 5 Chromatography -- 6 Electrophoresis -- 7 Immunological methods -- 8 Some common practical methods -- Answers to study questions -- 1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- Further sources of information

ISBN: 9789401702690 978-94-017-0269-0

Materia: Biochemistry Chemistry Life sciences

Entidades: SpringerLink (Online service)

Enlace a formato físico adicional: Printed edition 9789048162666

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es