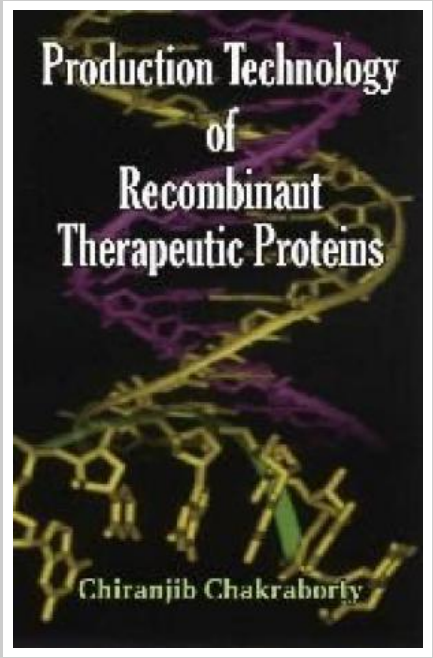


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Production Technology of Recombinant Therapeutic Proteins

By Chiranjib Chakraborty

Biotech Books/Daya Publishing House, 2004. Hardcover. Book Condition: New. An increasing number of recombinant therapeutic proteins are currently being developed, tested in clinical trials and marketed for used. Most of the recombinant therapeutic proteins are being successfully produced into Escherichia coli and Pichia pastoris expression system. These two expression systems are very much efficient and cost effective. This book takes a close look of these two expression systems and fermentation conditions, purification strategies of different recombinant proteins. This book also discusses the market size and cost analysis for the production of different therapeutic proteins and some general experimental protocols for production.;;Contents;Part I: Recombinant Protein Expression into Escherichia Coli and Fermentation Conditions; Chapter 1: Introduction; Chapter 2: Construction of Efficient Expression Vector (Plasmid); Chapter 3: Factors Affecting Transcription, Promoters, Upstream elements, Transcriptional terminators, Transcriptional antitermin, Tightly regulated expression systems; Chapter 4: mRNA Stability; Chapter 5: Factors Affecting Translation, mRNA translational initiator, Translational enhancers, Translational termination; Chapter 6: Expression of Target Protein and the Compartments of Expression, Cytoplasmic expression, Periplasmic expression, Extracellular secretion; Chapter 7: Fusion Proteins; Chapter 8: Post-translational Protein Folding; Chapter 8: Codon Usage; Chapter 10: Protein Degradation; Chapter 11: Fermentation Conditions for High-density Cell Cultivation (HDCC), Growth

Reviews

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