CONTENT

I. INTRODUTION

1. Purification and Characterization of Recombinant Proteins: Opportunities and	
Challenges	3
2. Purification and Production of therapeutic Grade Proteins	29
II. TECHNICAL ISSUES RELATED TO RECOVERY OF RECOMBINANT PROTEINS	
3. Physical and Chemical Cell Disruption for the Recovery of Intracellular Proteins	57
4. Protease During Purification	85
5. Properties of Recombinant Protein-Containing Inclusion Bodies in Escherichia coil	121
6. Methods for Removing N-Terminal Methionine from Recombinant Proteins	147
III. PURIFICATION OF RECOMBINANT PROTEINS FROM Escherichia coli, YEAST, AND	
MAMALIAN CELLS	
7. Purification of Secreted recombinant Proteins from Excherichia coli	163
8. Purification of Recombinant Proteins from Yeast	183
9. Production of Recombinant Proteins in the Methylotrophic Yeast Pichia pastoris	193
10. Purification of Monoclonal Antibodies	213
IV. RECENT TRENDS IN THE AREA OF RECOMBINANT PROTEIN PURIFICATION AND	
ANALYSES	
11. Engineering Proteins to Enable Their Isolation in a Biologically Active Form	239
12. Practical Aspects of Receptor Affinity Chromatography	267
13. Recombinant DNA Technology and Crystallography: A New Alliance in Unraveling	
Protein Structure Function Relationships	285
Index	317