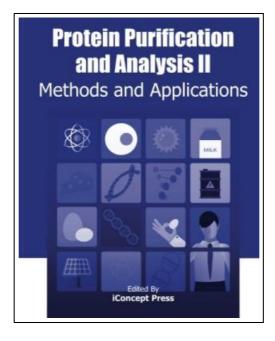
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PROTEIN PURIFICATION AND ANALYSIS II: METHODS AND APPLICATIONS



Iconcept Press, United States, 2014. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book. Proteins are biochemical compounds consisting of one or more polypeptides typically folded into a globular or fibrous form, facilitating a biological function. A polypeptide is a single linear polymer chain of amino acids bonded together by peptide bonds between the carboxyl and amino groups of adjacent amino acid residues. The sequence of amino acids in a protein is defined by the sequence of a gene, which is encoded in the genetic code. The complexity and sheer number of proteins in a cell are impediments to identifying proteins of interest or purifying proteins for function and structure analysis. Thus, reducing the complexity of a protein sample or in some cases purifying a protein to homogeneity is necessary. Protein Purification and Analysis discusses varies aspect related to protein analysis. There are totally three volumes. This book is the second volume. Chapter 1 describes protein-based methods for the analysis of plant alcohol dehydrogenases. Chapter 2 demonstrates production of recombinant fungal cell wall-degrading enzymes and their tag-affinity purification and biochemical analyses. Cell wall-degrading enzymes act on cleaving glycosidic bonds of polysaccharides and oligosaccharides, affecting morphological changes, plant-microbe interactions and nutrient acquisition. Chapter 3 contains a number of methodologies including recombinant protein purification and analysis, enzymatic reporter assays and fluorescent tag detection. Chapter 4 allows the reader to become acquainted with methods of recombinant expression, purification and determination of the level of activity of staphylococcal epidermolytic toxins. Chapter 5 discussed the recombinant expression, purification and biochemical analysis of a variety of extremophilic enzymes with potential industrial application. Chapter 6 discusses tellurite, which is highly toxic for most living organisms. The chapter describes how the mechanis



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