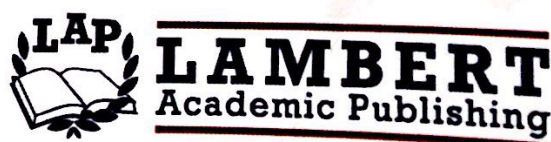


Jaya T. Varkey

# Solid Phase Synthesis of Thioresdoxin Sequences

An Analytical Approach

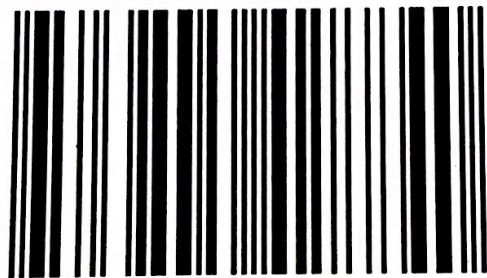


It has been nearly fifty years since the advent of solid phase method for the assembly of peptides. One of the main difficulties facing researchers in this field is that of obtaining quantities of peptides and proteins in a pure state. Isolation of proteins from natural resources can be laborious and often provides only tiny quantities. Investigations dealing with the quantitative aspects of polymer-supported reactions have shown that the insoluble support does have a significant dynamic influence on the bound substrates. An efficient polymeric support for peptide synthesis should have optimum hydrophobic-hydrophilic balance compatible with the peptide being synthesized. This book illustrates the synthesis and characterization of a novel polymer support, polystyrene crosslinked with 1,6-hexanediol diacrylate for the successful synthesis of peptides. The compatibility of the new support is proved by synthesizing sequences of Thioredoxin, which is otherwise difficult to synthesize. Thioredoxin is a naturally occurring sulphur reducing protein containing 108 amino acids. The book is useful to researchers, scientists and academia in studying the intricacies of solid phase synthesis.



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