Introduction  p. 1
Methods for Analysis of Deamidation and Isoaspartate Formation in Peptides and Proteins  p. 7
Purification and Properties of Protein I: Isoaspartyl Methyltransferase  p. 31
Recognition of Isomerized and Racemized Aspartyl Residues in Peptides by the Protein L-Isoaspartate (D-Aspartate) O-Methyltransferase  p. 47
Deamidation and Isoaspartate Formation in Model Synthetic Peptides: The Effects of Sequence and Solution Environment  p. 65
Deamidation and Isoaspartate Formation During In Vitro Aging of Purified Proteins  p. 91
Deamidation and Isoaspartate Formation in Serine Hydroxymethyltransferase  p. 115
Deamidation of Triosephosphate Isomerase In Vitro and In Vivo  p. 133
Degradation of Aspartyl and Asparaginyl Residues of Lens Proteins In Vivo  p. 157
Effect of Deamidation and Isoaspartate Formation on the Activity of Proteins  p. 167
The Role of Secondary and Tertiary Structure in Intramolecular Deamidation of Proteins  p. 193
Enzymatic Protein Methylation, Demethylation, and Deamidation: Their Role in Sensory Transduction in Chemotactic Bacteria  p. 207
Amino Acid Abundance and Sequence Data: Clues to the Biological Significance of Nonenzymatic Asparagine and Glutamine Deamidation in Proteins  p. 229
Index  p. 253

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.