

TABLE OF CONTENTS

PROTEINS

Optical Rotatory Dispersion and Circular Dichroism of Proteins	3
Near-ultraviolet Circular Dichroism Bands of Proteins	141
Near-ultraviolet Circular Dichroism Bands of Aromatic Amino Acids and Peptides	167
Ultraviolet and Visible Absorption Spectra of Human Normal Adult Hemoglobin Derivatives and Related Compounds	174
Active Site Peptides	186
Amino Acid Sequence, Physical and Biological Properties of Natural and Related Synthetic Oligopeptides — Oxytocin and Vasopressin Group	192
Amino Acid Sequence, Physical and Biological Properties of Natural and Related Synthetic Oligopeptides — Bradykinin and Kallidin Group	221
Amino Acid Sequence, Physical and Biological Properties of Natural and Related Synthetic Oligopeptides — Eleodoisin and Physalaemin Group	236
Amino Acid Sequences of Proteins — Coat Proteins	261
Amino Acid Sequences of Virus Coat Proteins (Turnip Yellow Mosaic Virus, TYM)	263
Location of Some Amino Acid Replacements in Naturally Occurring (NM) and Chemically Induced (CM) Mutants of TMV	266
Amino Acid Sequences of Proteins — Eukaryotic Cytochromes <i>c</i>	268
Amino Acid Sequences of Proteins — Eukaryotic and Prokaryotic Cytochromes <i>b</i>	280
Amino Acid Sequences of Eukaryotic Cytochromes <i>c</i>	282
Frequency of Occurrence of Amino Acids Among 60 Species at Different Positions Along Chain	288
Amino Acid Sequences of Prokaryotic Cytochromes <i>c</i>	292
Amino Acid Sequences of Proteins — Enzymes	308
Amino Acid Sequences of Proteins — Pyridine Nucleotide-dependent Dehydrogenases	314
Amino Acid Sequence of Thermolysin	322
Amino Acid Sequences of Gastrins	323
List of Complete Sequences of Glycolytic Enzymes	324
Bovine Carboxypeptidase B and A	338
Amino Acid Sequence Data on Trypsin-related Serine Proteases	340
Amino Acid Sequences of Papain, Stem Bromelain, Fruit Bromelain, Ficin, Chymopapain-B, and Streptococcal Proteinase	356
The Complete Amino Acid Sequence of Porcine Pepsin	358
Homology in Sequences Adjoining the Tryptophanyl and Active Center Aspartyl Residues in Pepsin	359
Snake Venom Toxins	360
Amino Acid Sequences of Proteins — Hormones	375
Amino Acid Sequences of Proteins — Hormones (Insulins)	378
Sequences of Calcitonins	383
Amino Acid Sequences of Proteins — Hormones of the Anterior Pituitary and Placenta	385
Amino Acid Sequences of Parathyroid Hormones	399
Distribution of Neurohypophysial Hormones in Vertebrates	400
Structures of Neurohypophysial Hormones of Vertebrates	401
The Amino Acid Sequence of Human Chorionic Gonadotropin	402
Amino Acid Sequences of Immunoglobulins	403
Amino Acid Sequence of some Proteins — Ferredoxins	421
Amino Acid Sequences of Proteins — Fibrinopeptides	431
Amino Acid Sequences of Proteins — Vertebrate Myoglobins	437
Amino Acid Sequences of Proteins — α Type Chains of Vertebrate Tetrameric Hemoglobins	441
Amino Acid Sequences of Proteins — β Type Chains of Vertebrate Tetrameric Hemoglobins	448

Amino Acid Sequences of Proteins — Aligned Chains of Metazoan Globins and Soybean	456
Leghemoglobin	461
List of Known Hemoglobin Substitutions and Deletions	474
Amino Acid Sequences of Collagen Chains	490
Amino Acid Sequences of the Muscle Contractile Proteins	497
Bovine Serum Albumin	498
Human Serum Albumin	499
Amino Acid Sequences of Proteins — Miscellaneous	503
Mamallian α -Crystallin A Chains	504
Amino Acid Compositions of Selected Proteins	520
Selected Amino Acid Analysis of Collagens	523
Cross-linkages in Collagen	524
Post-translational Enzymes in Collagen	525
Immunoglobulins of Laboratory Animals	528
Some Properties of Human Immunoglobulins	529
Disulfide Bonding Patterns of Immunoglobulin Molecules	530
Immunoglobulin Allotypes	536
Cell Types Involved in Immunological Response	541
Some Low Molecular Weight Compounds with Immunogenic Properties	542
Methods for Detection of Antibody-producing Cells	543
Methods for Detection of Serum Antibodies	546
Immunogenic Synthetic Polypeptides	549
Immunogenic Peptides and their Derivatives	550
Immunogenic Conjugates of Synthetic Polypeptides	552
Molecular Turnover of Enzymes in Animal Tissues	559
Molecular Turnover of Cytochromes in Animals	560
Proton Magnetic Resonance Spectral Data and Suggested Conformations of Biologically Active	575
Cyclic Peptides and Cyclic Peptide Antibiotics	588
Raman Spectroscopy of Polypeptides and Proteins	593
Resonance Raman Spectra of Proteins	595
Volume Changes for Some Macromolecule Association Reactions	596
Temperature Coefficients of Apparent Partial Specific Volumes of Proteins Expressed in ml/g/deg (dV/dT)	598
Infrared Spectra of Proteins	601
Fluorescent Enzyme Inhibitors	604
Fluorescence of Enzyme Cofactors	608
Fluorescent Probes of Protein Structure: Naphthalene Sulfonates	618
Properties of Fluorescent Probes Commonly Used for Membrane Studies	618
INDEX	618