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Book sale: save up to 30% on individual print and eBooks with free delivery. Use promo code SCIENCE30 More detailsMethods in Immunology and Immunochemistry, Volume I: Preparation of Antigens and Antibodies is aimed to bring together detailed procedures in the preparation of antigens and antibodies. The text also provides a presentation and discussion of these methods. The book covers topics in immunology such as antigens, its kinds, and the preparation and testing of lipids for immunological study. The production of antiserum; the preparation of immunogens; collecting and handling of serum; and immunization procedures are also explained. The book also discusses the purification of antibodies; methods of labeling antigens and antibodies; and the methods used in the studies of the structure of immunoglobulins. The text is recommended for immunologists who would like to know the different procedures and methods involved in immunology as well as the principles behind it. The book will also serve as a guide for medical staff who prepare products related to immunology. Topical Listing of ContentsContribution to Volume I PrefaceContents to Other VolumesChapter 1. AntigensA. Proteins Crystallization Chromatographic and Electrophoretic Separations, Use of Antibodies to Remove Highly Antigenic Impurities Stabilization of AntigenB. Bacterial Antigens 1. Disruption of Bacteria and Preparation of Cell Walls Disruption Lysis Grinding Sonic and Ultrasonic Vibrations Freeze-Thawing Shaking Decompression High Pressure Extrusion Preparation of Whole Cell Walls Salmonella enteritidis Mycobacterium tuberculosis Recovery and Refinement of Cell Walls 2. Cell Wall Antigens from Gram-Negative Bacteria Trichloroacetic Acid Extraction of the Whole Antigenic Complex Phenol-Water Extraction of the Lipopolysaccharide Somatic Degraded Polysaccharide Obtained by Acetic Acid Hydrolysis of the Bacteria Polysaccharide Obtained by Alkaline Hydrolysis 3. 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