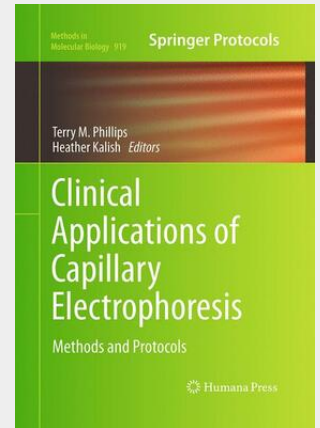


# Clinical Applications of Capillary Electrophoresis

Methods and Protocols

Capillary electrophoresis (CE) is a powerful and rapid tool for performing complex analyses of a number of different molecular species ranging from small inorganic ions to large nucleic acid fragments and proteins. It is quickly becoming established as a useful tool in clinical medicine due to its consumption of minute samples (less than a microlitre), low reagent costs, and extreme sensitivity, depending upon the source of detection used. Clinical Applications of Capillary Electrophoresis aims to give an in-depth manual of CE applications in several important areas of clinical science. Divided into seven sections, this volume provides a brief overview of how CE has been applied in clinical settings, followed by several chapters on CE analysis of important diagnostic molecules and biofluids, as well as descriptions of applications in clinical chemistry, hematology, bacteriology, virology, disease-associated biomarker discovery, immunology and genetic analysis. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Clinical Applications of Capillary Electrophoresis seeks to serve as a valuable source of information not only for clinical pathologists, but also clinical scientists who wish to apply the technique to diagnosis and research.

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