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1993 Edition by Reinhard Kuhn (Author),

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978-3642780608

**Capillary Electrophoresis: Principles
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Capillary Electrophoresis (CE) has had a

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very significant impact on the field of analytical chemistry in recent years as the technique is capable of very high resolution separations, requiring only small amounts of samples and reagents. Furthermore, it can be readily adapted to automatic...

Capillary Electrophoresis:

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Capillary electrophoresis (CE) is a brand-new analytical method with the capability of solving many analytical separation problems very fast and economically. This method gives new information about the investigated substances which cannot easily be obtained by other means.

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Capillary Zone Electrophoresis (CZE), also known as free solution capillary electrophoresis, it is the most commonly used technique of the six methods. A mixture in a solution can be separated into its individual components quickly

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and easily. The separation is based on the differences in electrophoretic mobility, which is directed proportional to the charge on the molecule, and inversely proportional to the viscosity of the solvent and radius of the atom. The velocity at which the ion moves is ...

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A special type of capillary electrophoresis known as affinity capillary electrophoresis is conducted to understand the interactions of protein-ligand. It is commonly used in pharmaceutical companies and life sciences. (7, 8, 9, and 10) Types of capillary electrophoresis. Capillary isoelectric focusing - It is used to

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separate peptides and proteins. The two determining factors are the charge of protein groups and the pH of the solution.

Capillary Electrophoresis - Applications and Procedure ...

Capillary electrophoresis (CE) is a special case of using an electrical field to

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separate the components of a mixture. Electrophoresis in a capillary is differentiated from other forms of electrophoresis in that it is carried out within the confines of a narrow tube.

Basic Principles Of Capillary Electrophoresis - Capillary ... Description Capillary Electrophoresis

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(CE) has had a very significant impact on the field of analytical chemistry in recent years as the technique is capable of very high resolution separations, requiring only small amounts of samples and reagents. Furthermore, it can be readily adapted to automatic sample handling and real time data processing.

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**Capillary Electrophoresis, Volume
52 - 1st Edition**

The basic principles of capillary electrophoresis. Ten different modes of CE, including CZE, CGE and cIEF. Equipment and operational details. Treatment of the capillary, the separation column. Electrokinetic and hydrodynamic injection. Multiple

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detection mechanisms. Corrected peak areas explained.

**Introduction to Capillary
Electrophoresis - Fundamentals ...**

Correlation Capillary Zone
Electrophoresis (CCZE) Micromachinery.
CZE is known for its high detection
limits. Correlation techniques, as used in

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chromatography, can be applied in CZE as well. The goal and basic principles are the same. The main problem is the high demand on the injection system, just as in CC.

Capillary Zone Electrophoresis - an overview ...

Capillary electrophoresis is a family of

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electrokinetic separation methods performed in submillimeter diameter capillaries and in micro- and nanofluidic channels. Very often, CE refers to capillary zone electrophoresis, but other electrophoretic techniques including capillary gel electrophoresis, capillary isoelectric focusing, capillary isotachopheresis and micellar

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electrokinetic chromatography belong also to this class of methods. In CE methods, analytes migrate through electrolyte solutions

Capillary electrophoresis - Wikipedia

CAPILLARY ELECTROPHORESIS:
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2 Basic Principles 5 2.1 Basic
Electrophoretic Separation Modes 5

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2.1.1 Zone Electrophoresis 6 2.1.2
Isotachophoresis 7 2.1.3 Isoelectric
Focusing 8 2.2 Set-up for Capillary
Electrophoresis 10 2.3 Theory of
Electrophoretic Migration 11 2.4
Determination of Effective Mobilitiy 19
2.5 Electroosmosis 22 2.6 Performance
Criteria 29 2.6.1 Efficiency 30

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Description. HPLC and CE: Principles and Practice presents the latest information on the most powerful separation techniques available: high-performance liquid chromatography (HPLC) and capillary electrophoresis (CE).

Fundamental theory, instrumentation,

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modes of operation, and optimization of separations are presented in a concise, non-technical style to help the user in choosing the appropriate technique quickly and accurately.

High Performance Liquid Chromatography & Capillary ...

Capillary electrophoresis applications in

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forensic sciences have appeared only recently, but are now rapidly growing, particularly in forensic toxicology. The present paper briefly describes the basic principles of capillary electrophoresis, from both the instrumental and analytical points of view.

Capillary electrophoresis: principles

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and applications in ...

Capillary electrophoresis is a new analytical method with the capability of solving many problems quickly. This manual gives new information about investigated substances which cannot easily be obtained by other means.

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Capillary electrophoresis (CE) is a special case of using an electrical field to separate the components of a mixture.

Electrophoresis in a capillary is differentiated from other forms of electrophoresis in that it is carried out within the confines of a narrow tube.

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Practice And Applications **Basic Principles and Modes of Capillary Electrophoresis ...**

Electrophoretic mobility is directly proportional to the net charge and inversely proportional to the size of the molecule and the viscosity of the electrophoresis medium. In practice, the equation $\mu = m^2 / (V) (s)$ is used to calculate electrophoretic mobility.

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Electrophoresis | Basicmedical Key

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