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2D gel electrophoresis Electrophoresis

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Gel Electrophoresis

Capillary electrophoresis-Part 1

Principle of Electrophoresis

~~Electrophoresis||Types of~~

~~Electrophoresis||Principle \u0026~~

~~Purpose of Electrophoresis in easy~~

~~way? Capillary Electrophoresis (Part~~

~~1): Introduction \u0026 Context~~

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Agarose Gel Electrophoresis

Gel electrophoresis | Chemical processes | MCAT | Khan Academy

~~Capillary Electrophoresis (Part 2):~~

~~Instrumentation \u0026 Electroosmotic Flow~~ Capillary electrophoresis

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Electrophoresis—Animation **Gel**

electrophoresis *Agarose Gel*

Electrophoresis of DNA fragments

amplified using PCR Western Blotting

What Is Capillary Electrophoresis?

Capillary Electrophoresis ~~Capillary~~

~~Electrophoresis (Part 5): Reversed~~

~~Electroosmotic Flow~~

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Agarose Gel Electrophoresis, DNA Sequencing, PCR, Excerpt 1 | MIT 7.01SC Fundamentals of Biology

Protein Synthesis (Updated)

Capillary Electrophoresis (Part 3):

Electrophoretic mobility Capillary

Electrophoresis Agarose gel

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*Technique || Electrophoresis
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Precipitation Reactions and
Precipitation Curve (Diagnostic
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|| Protein Electrophoresis SDS PAGE |***

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polyacrylamide gel electrophoresis Gel
Electrophoresis | Agarose Gel
Electrophoresis Lab Procedure **Zone**

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Zone Electrophoresis 27 28. Capillary
Gel Electrophoresis 28 It is generally
performed in porous gel formed by a
polymer matrix. The polymer used is

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normally Polyacrylamide (monomer Acrylamide $\text{CH}_2=\text{CH}-\text{CO}-\text{NH}_2$) The gel used adds an additional component of sieving (size) into the separation process.

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Capillary Zone electrophoresis (CZE)

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i.CZE analytes move in the EOF but separate into bands because of differences in their electrophoretic mobilities, μ . ii.Differences in μ make each analytic's overall migration velocity slightly different, and difference in migration velocity = separation. iii. μ 's are roughly a

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reported.3. Apply field for short time (electrokinetic injection) discriminates against low migration rate analytes or apply pressure for short time (pressure injection) or place the sample chamber at a higher level (Siphoning).4. Replace

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Zone electrophoresis (ZE) is the most widely used mode. It is fundamentally the simplest form of CE, mainly because the capillary is only filled with buffer. Separation occurs because

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solutes migrate in discrete zones and at different velocities and are separated solely based on differences in μ_{ep} .

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Capillary zone electrophoresis – Of all

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capillary electrophoresis methods, the capillary zone is the most common. It is also known by the name free solution capillary electrophoresis. In this type of separation method, the ratio of charge particles to mass is taken into consideration.

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Capillary Electrophoresis - Applications and Procedure ...

B. Zone Electrophoresis: This is the most prevalent electrophoretic technique of these days. In this type of electrophoresis the separation process is carried out on a stabilizing media as discussed above. The zone

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electrophoresis is of following types;
(a) Paper electrophoresis (b) Cellulose acetate electrophoresis (c) Capillary ...

Electrophoresis: Meaning, Definition and Classification ...

Electrophoresis terminology There are a few significant differences between

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the nomenclature of chromatography and capillary electrophoresis. For example, a fundamental term in chromatography is retention time. In electrophoresis, under ideal conditions, nothing is retained, so the analogous term becomes migration time.

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Zone electrophoresis techniques were then introduced, where filter paper, capillary tubes were used as carrier matrix for the movement of molecules.

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1955: In this year, Oliver Smithies introduced agarose gel and polyacrylamide gels as a substrate for the separation of biomolecules.

What is Electrophoresis? Definition, Working and Types ...

Chromatographic & Electrophoretic

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Zone Electrophoresis | ScienceDirect

Following electrophoresis, the separated antigens are reacted with specific antisera placed in troughs parallel to the electrophoretic migration and diffusion is allowed to occur.

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Antiserum present in the trough moves toward the antigen components resulting in the formation of separate precipitin lines in 18-24 hrs, each indicating reaction between individual proteins with its antibody.

Immuno-electrophoresis- Principle,

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Procedure, Results and ...

Key Difference – Capillary Electrophoresis vs Gel Electrophoresis

Electrophoresis is a technique that is used to separate biomolecules based on the particle charge, particle size, and the particle shape. The migration of the molecule, known as

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