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Isoelectric focusing (IEF) is a high-resolution, stand-alone technique that can be used as an analytical method or tool for protein purification. The only current book on the market, the Handbook of Isoelectric Focusing and Proteomics is the ideal 'one-stop' source for germane information in this discipline. This highly practical book also contains chapters on alternative methods that may pave the way in the search for efficient techniques for fractionating and purifying proteins.

Handbook of Isoelectric Focusing and Proteomics, Volume 7 ...

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Theory of Isoelectric Focusing • The pH gradient is established in an acrylamide gel [see later - 2 ways - carrier ampholytes or immobilised ampholytes] e.g. in a carrier ampholyte gel, the anode end of the gel contains phosphoric acid while the cathode contains sodium hydroxide. Therefore the anode will have a low pH while the cathode will

Lecture 3 Isoelectric Focusing - LSCT 83-04-0000

isoelectric focusing Quick Reference A technique for the electrophoretic (see electrophoresis) separation of amphoteric (i.e. able to combine with either an acid or a base) molecules in a gradient of pH, usually formed from a combination of buffers held on a polyacrylamide gel support medium.

Isoelectric focusing - Oxford Reference

Isoelectric focusing (IEF) is one of the most commonly used techniques for the separation of proteins. IEF separations are based on the pH dependence of the electrophoretic mobilities of the protein molecules. Isoelectric focusing makes use of electrical charge properties of molecules to focus them in defined zones in a separation medium.

Isoelectric focusing - MyBioSource Learning Center

D. Otter, in Encyclopedia of Food Sciences and Nutrition (Second Edition), 2003. Capillary isoelectric focusing. Capillary isoelectric focusing (CIEF) is similar to IEF-PAGE and separates proteins and peptides according to their pI values. It is a 'high-resolution' technique with a resolution of 0.005 pI units and less. Ampholytes are used to form a pH gradient within the capillary, and ...

Capillary Isoelectric Focusing - an overview ...

Isoelectric focusing (IEF), also known as electrofocusing, is a technique for separating different molecules by differences in their isoelectric point (pI). It is a type of zone electrophoresis usually performed on proteins in a gel that takes advantage of the fact that overall charge on the molecule of interest is a function of the pH of its surroundings.

Isoelectric focusing - Wikipedia

Isoelectric focusing has long been used for separation and congregation of ampholytic proteins in the general area of biotechnology and chromatography, however, the process has not been exploited...

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Handbook of Isoelectric Focusing and Proteomics David Garfin, Satinder Ahuja Limited preview - 2005. About the author (2000) Satinder Ahuja is a leading expert on water quality improvement. He earned his PhD in analytical chemistry from the University of the Sciences in Philadelphia. He worked for Novartis Corp. in various leadership positions ...

Handbook of Bioseparations - Google Books

Henry Delinsee, Bertold J. Radola, Determination of isoelectric points in thin-layer isoelectric focusing: The importance of attaining the steady state and the role of CO₂ interference, *Analytical Biochemistry*, 10.1016/0003-2697(78)90154-9, 90, 2, (609-623), (1978).

PHYSICOCHEMICAL PROPERTIES OF THE CARRIER AMPHOLYTES AND ...

Isoelectric focusing is an electrophoretic method in which proteins are separated on the basis of their pI (1-12). It makes use of the property of proteins that their net charges are determined by the pH of their local environments. Proteins carry positive, negative, or zero net electrical charge, depending on the pH of their surroundings.

Isoelectric focusing - University of Vermont

Isoelectric focusing (IEF) is an electrophoresis technique that separates proteins based on their isoelectric point (pI). The pI is the pH at which a protein has no net charge and does not move in an electric field. Novex IEF Gels effectively create a pH gradient so proteins separate according to their unique pI.

Novex IEF Gels | Thermo Fisher Scientific - US

Also included is a chapter on the separation of monoclonal antibodies, which have found numerous uses as therapeutic and diagnostic agents. Analytical techniques include an interesting montage of chromatographic methods, capillary electrophoresis, isoelectric focusing, and mass spectrometry.

Handbook of Bioseparations, Volume 2 (Separation Science ...

Strips were rehydrated for 12 h at 50 V using Protean IsoElectric Focusing Cell II (Bio-Rad) and then focused at 300 V for 1 h (exponential), 1,500 V for 1 h (exponential), 10,000 V for 6 h (linear), and 10,000 V for 2.5 h (exponential). The second dimension was performed in 12.5% (wt/vol) polyacrylamide gels (20 by 20 by 0.1 cm) run overnight ...

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