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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 have a high pH. This is the principle of isoelectric focusing (IEF), 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 Isoelectric focusing (IEF) is an electrophoretic technique for the separation of amphoteric analytes according to their isoelectric point (pI) by the application of an electric field along a pH gradient formed in a capillary. In contrast to most modes of electrophoresis, the whole capillary is filled with a mixture of sample and ampholyte mixture and each analyte is focused at its pI. Isoelectric Focusing - an

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overview | ScienceDirect Topics Isoelectric focusing (IEF), also known as electrofocusing, is a technique for separating different molecules by differences in their isoelectric point (pI). [1] [2] 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 -

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University of the Sciences in Philadelphia. He worked
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(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

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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.

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