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# How to Determine Isoelectric Point

181830691 [1]

[1]Lenoir-Rhyne College

*Other* This protocol is published without a DOI.

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ABSTRACT

Isoelectric Point, the pH of a molecule without charge on its surface, is mentioned for things that are charged, including but not limited to amphoteric electrolytes, such as amino acids and proteins. As amphoteric electrolyte, proteins' isoelectric points are related to the ratio of acidic and basic amino acids it contains. Due to different amino acid residues, different proteins have different isoelectric points. When the positive and negative charges of a protein are exactly equal at a certain particular pH value, the protein does not move towards either the anode or the cathode in the electric field. Therefore, the isoelectric point of proteins can be determined by electrophoresis, and by which protein molecules with different charged properties, sizes and shapes can also be separated and purified.

EXTERNAL LINK

https://www.creative-proteomics.com/pronalyse/isoelectric-point-pi-determination.html

ATTACHMENTS

How to Determine Isoelectric Point.docx

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PROTOCOL CITATION

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