

## Ion Exchange Chromatography Handbook Ge Healthcare

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Principles of ion exchange This chapter provides a general introduction to the theoretical principles that underlie every ion exchange separation. An understanding of these principles will enable the separation power of ion exchange chromatography (IEX) to be fully appreciated. Practical aspects of performing a separation are covered in Chapter 2.

[Ion Exchange Chromatography & Chromatofocusing](#)

General description This Handbook contains the latest information on the theoretical and practical aspects of ion exchange and chromatofocusing techniques, the prepacked columns and media available, and how to select them.

[Ion Exchange Chromatography And Chromatofocusing Handbook ...](#)

Ion exchange chromatography (IEX) separates proteins with differences in surface charge to give high-resolution separation with high sample loading capacity. The separation is based on the reversible interaction between a charged protein and an oppositely charged chromatography resin.

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What is ion exchange (IEX) chromatography? IEX is a liquid chromatography technique to separate proteins that have only slight differences in their net surface charge. Even very closely related proteins will have some difference in charge and

[Ion exchange chromatography columns and resins](#)

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[Hydrophobic Interaction and Reversed Phase Chromatography](#)

This handbook, ÄKTA Laboratory-scale Chromatography Systems, is focused on liquid chromatography systems used for protein purification at research laboratory scale. Beginners can use the handbook to obtain an overview of how purification systems work and to learn about important considerations for achieving successful results.

[AKTA Laboratory-scale Chromatography Systems](#)

[Size exclusion chromatography \(SEC\), also called gel filtration \(GF\)](#) [Hydrophobicity](#) [Hydrophobic interaction chromatography \(HIC\)](#) [Reversed phase chromatography \(RPC\)](#) [Charge](#) [Ion exchange chromatography \(IEX\)](#) [Biorecognition \(ligand specificity\)](#) [Affinity chromatography \(AC\)](#) [Isoelectric point \(pI\)](#) [Chromatofocusing \(CF\)](#) [Fig I.1.](#)

### Size Exclusion Chromatography - huji.ac.il

Extracted from Ion Exchange Chromatography & Chromatofocusing, GE Healthcare, 2007 Use chromatofocusing as a polishing step for partially purified samples. The fewer components in the sample, the better the chance for a well-resolved separation of individual proteins.

### Chromatofocusing: Principles and Methods | Sigma-Aldrich

For in-depth information about HIC, download our HIC handbook. How does hydrophobic interaction chromatography work? Proteins with different degrees of surface hydrophobicity can be separated using hydrophobic interaction chromatography. The proteins are bound to the hydrophobic ligand on the HIC resin in a binding buffer with a high salt concentration. When the ionic strength of the buffer is ...

### Hydrophobic Interaction Chromatography | Cytiva, formerly ...

Fundamentals of ion exchange chromatography. [READ MORE](#) Hydrophobic interaction chromatography. Fundamentals of hydrophobic interaction chromatography. [READ MORE](#) Mixed mode (multimodal) chromatography. In MM chromatography, ligands immobilized to the resin interact with the target protein molecule through multiple types of interactions. [Read more](#) Sign up for the ÄKTA club newsletter. [for more ...](#)

### Protein Purification Methods | Cytiva, formerly GE ...

GE Healthcare Affinity Chromatography Vol. 2: Tagged Proteins 18114275 Affinity Chromatography Vol. 3: Specific Groups of Biomolecules GE Healthcare Affinity Chromatography Vol. 3: Specific Groups of Biomolecules 18102229 GE Healthcare Life Sciences Ion Exchange KTA<sup>a</sup> Laboratory-scale Chromatography Systems Instrument Management Handbook

### Affinity Chromatography Handbook, Vol. 1: Antibodies

SOURCE 15S is a synthetic high performance, preparative, chromatography resin, based on a 15 µm monosized, rigid polystyrene/divinyl benzene polymer matrix. It is modified with sulphonate (S) strong cation exchange groups. SOURCE resins have excellent physical and chemical characteristics, allowing high flow rates and consistent performance.

### SOURCE 15S | Cytiva, formerly GE Healthcare Life Sciences

In ion exchange chromatography, for example, the pH optimum will change when conductivity is changed. Thus, with the one-factor-at-a-time experimental setup, there is a great risk that the true optimum for the studied process is not identified.

### Design of Experiments in Protein Production and Purification

Ion exchange chromatography (IEC) Hydrophobic interaction chromatography (HIC) Gel filtration (SEC) ... My approach is based on classical combination of ion-exchange, hydrophobic and size-exclusion chromatography for natively (no tags) over-expressed proteins. Nowadays the high throughput approach dictates increasing use of tags in protein purification and sometimes classical methods are ...

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