

Capto HiRes columns

When the highest resolution matters
in ion exchange chromatography (IEX)



Be sure you get the highest IEX resolution

New Capto™ HiRes prepacked columns can separate biomolecules with small differences in net surface charge and are therefore well-suited for:

- **Preparation of highly pure proteins**, which is essential in for example, structural studies using techniques such as cryo-electron microscopy or protein crystallography
- **Protein analysis** in research or quality control such as in the characterization of protein charge variants

Capto HiRes replaces the well-established MonoBeads™ resin

For continued compliance with human health and environment regulation in manufacturing (European Union REACH² regulation), we have developed Capto HiRes to replace MonoBeads resin.

Transition from MonoBeads to Capto HiRes made easy!

If you are already using MonoBeads resin packed in Mono S™ or Mono Q™ columns, there is no need to change experimental conditions. Capto HiRes columns will deliver similar chromatography profiles/selectivity, which means that further optimization should be minimal.

¹ Compared with other IEX columns from Cytiva.

² Registration, Evaluation, Authorization and Restriction of Chemicals

New-generation
IEX columns

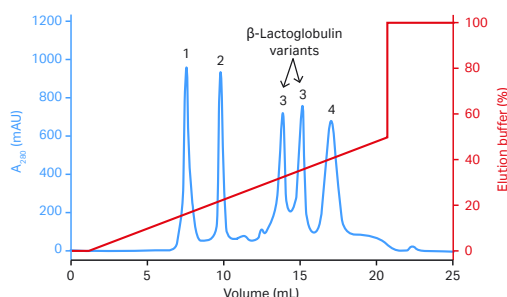
Highest resolution
in lab-scale
purification¹

Replacing
Mono Q and
Mono S columns

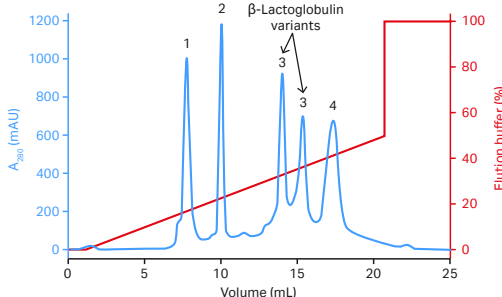
Transition
made easy

Purification performance of Mono Q column vs new Capto HiRes Q column under same experimental conditions

(A) Mono Q 5/50 column



(B) Capto HiRes Q 5/50 column

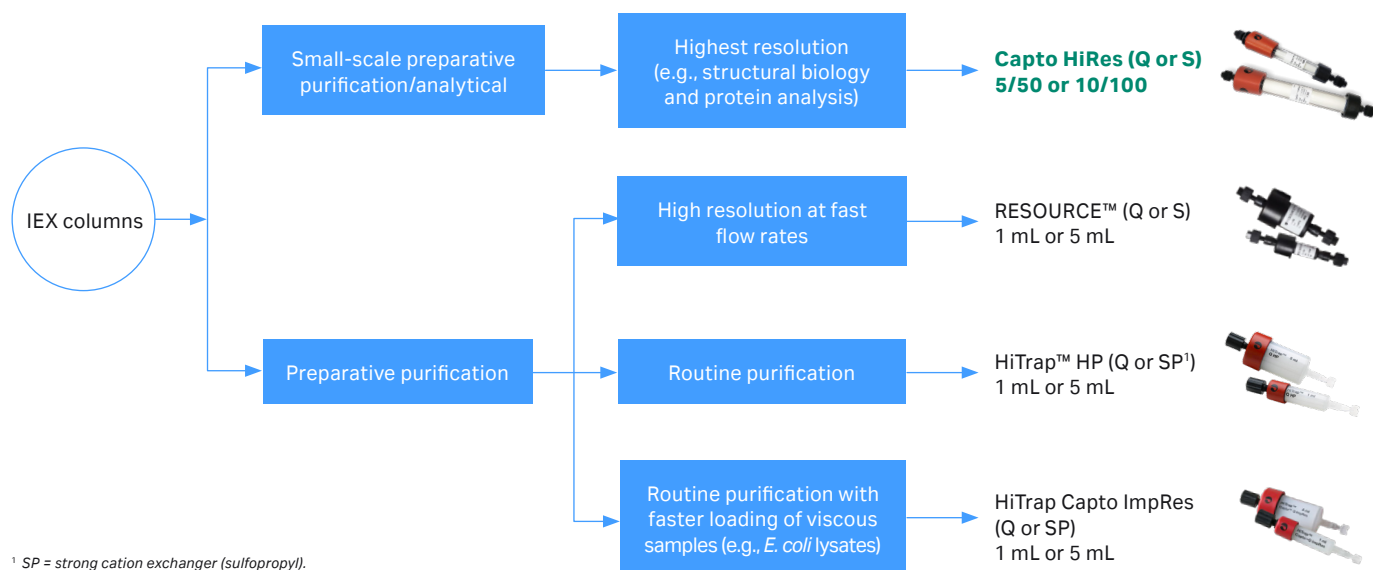


Sample: 1. Apotransferrin
2. α-Lactalbumin
3. β-Lactoglobulin
4. Amyloglucosidase

Sample volume: 500 µL
Sample load: 2.5 mg
Binding buffer: 20 mM Tris-HCl, pH 8.0
Elution buffer: 20 mM Tris-HCl, 1 M NaCl, pH 8.0
Gradient: 0% to 50% elution buffer in 20 CV
Flow rate: 1.0 mL/min

Fig 1. Separations of protein mixtures on (A) Mono Q 5/50 column and (B) Capto HiRes Q 5/50 column under identical experimental conditions. The elution profiles are similar for these columns, with slightly higher resolution for Capto HiRes Q.

Overview of Cytiva's main prepacked IEX chromatography columns for lab scale



Ordering information

Ion exchange group ²	Dimension	Capto HiRes columns		Predecessor columns (packed with MonoBeads resin)	
Quaternary ammonium (Q), anion exchange	5 × 50 mm	29275878	Capto HiRes Q 5/50	17516601	Mono Q - 5/50 GL
	10 × 100 mm	29275881	Capto HiRes Q 10/100	17516701	Mono Q - 10/100 GL
Methyl sulfonate (S), cation exchange	5 × 50 mm	29275877	Capto HiRes S 5/50	17516801	Mono S - 5/50 GL
	10 × 100 mm	29275879	Capto HiRes S 10/100	17516901	Mono S - 10/100 GL

² Q = strong anion exchanger (quaternary ammonium).
S = strong cation exchanger (methyl sulfonate).

[cytiva.com/capto-hires](https://www.cytiva.com/capto-hires)

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