

Take charge of variant analysis and see your protein separations in high resolution



You need the flexibility to choose between weak and strong ion exchange chemistries for optimal resolution of your variants. You don't want complicated screening mobile phase conditions, and instead prefer the simplicity offered by a linear pH gradient.

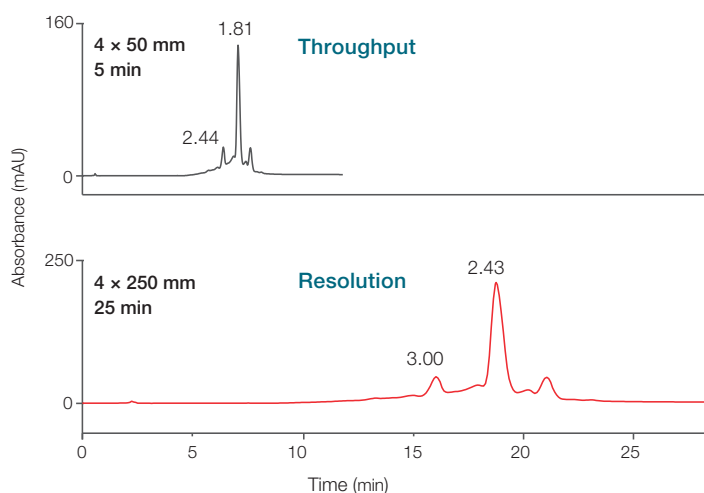
Our workflow solutions enable you to take charge of your therapeutic protein separations, simplify your method development and increase your resolution.

Find high-throughput separation under 10 minutes. Experience the ability to combine your charge variant profile to MS/MS. Learn to generate the highest resolution profile. Trust us for robust, reproducible charge variant solutions that fit all your analytical development needs.

You have the option to realize **consistent, high resolution** separations under 10 minutes using either the high throughput Thermo Scientific™ ProPac™ Elite weak cation exchange (WCX) liquid chromatography column or the Thermo Scientific™ MAbPac™ SCX-10 RS monoclonal antibody analysis column with Thermo Scientific™ CX-1 pH Gradient Buffers.

Recommended for high throughput separations

Part Number	Product Specifications
303028	ProPac Elite WCX LC column, 2.1 × 50 mm
082675	MAbPac SCX-10 RS column, 2.1 × 50 mm
083274	CX-1 pH Gradient Buffer Kit; 125 mL Buffer A + 125 mL Buffer B



Column length—resolution vs. speed with a salt gradient. Peak labels describe time resolution of variants from the main peak.

If **ultimate resolution and consistency** are most important to your lab, we offer 150 mm and 250 mm lengths of these columns. This allows you to balance your speed and resolution needs.

Recommended for high resolution separations

Part Number	Product Specifications
302972	ProPac Elite WCX LC column, 4 × 150 mm
303025	ProPac Elite WCX LC column, 4 × 250 mm
085198	MAbPac SCX-10 LC column, 4 × 150 mm
074625	MAbPac SCX-10 LC column, 4 × 250 mm
085349	CX-1 pH Gradient Buffer Kit; 250 mL Buffer A + 250 mL Buffer B

CX-1 pH Gradient Buffers can be purchased in quantities of 125 mL, 250 mL, 500 mL and 1000 mL.

Helpful resources

Product details

- 📄 ProPac Elite WCX LC Columns

Brochure

- 📄 ProPac Elite WCX Column – It's Time to See Your Protein Separations in Higher Resolution

User manuals

- 📄 MAbPac SCX-10 Columns
- 📄 CX-1 pH Gradient Buffer

Specification sheet

- 📄 ProPac Elite WCX Column

Application notes

- 📄 Separation of IgG2 and IgG4 therapeutics using weak cation exchange chromatography
- 📄 Salt gradient analysis of IgG1 monoclonal antibodies using a 5 µm WCX chromatography column
- 📄 pH gradient analysis of IgG1 therapeutic monoclonal antibodies using a 5 µm WCX column
- 📄 A global pH-gradient based charge variant analysis directly coupled to HRAM-MS (CVA-MS) for mAb analysis

eBook

- 📄 Biopharmaceutical Characterisation Compendium

Find out more at thermofisher.com/propac
and thermofisher.com/biolc