

High Performance Resin for Larger Biomolecules such as AAVs and pDNA



Ion exchange media are widely used in the purification of biomolecules. As the molecules of biopharmaceutical interest are becoming larger, the demands on the process resins are also changing. Large particles and molecules like adeno-associated viruses (AAV) and pDNA require larger pores to ensure sufficient interaction with the resin. Modern process resins that offer a high dynamic binding capacity (DBC) for these larger biomolecules enable higher

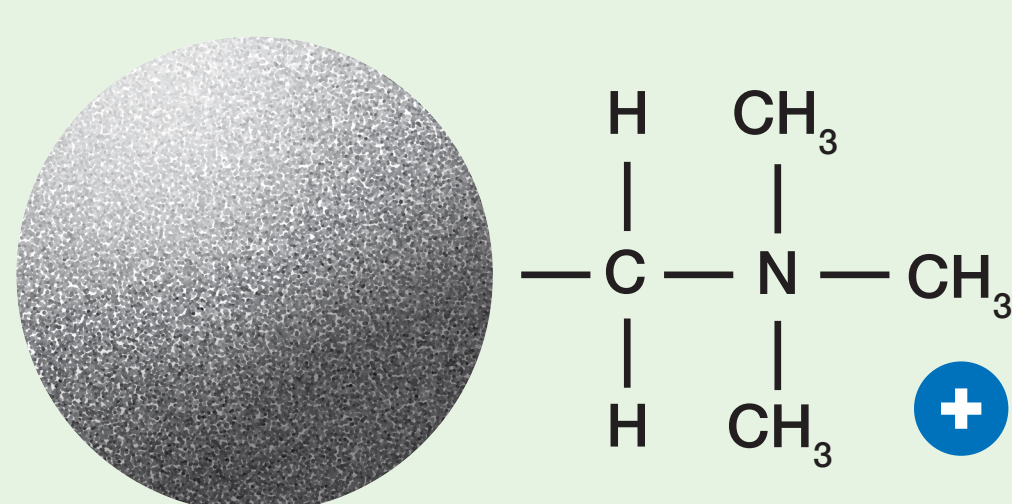
sample loadings. In addition, the base particle contributes massively to the process productivity. Resins based on hydrophilic polymer beads provide low backpressures and can be used at high flow rates.

The innovative AEX resin MacroSep IEX Q meets these demands and improves the economics and efficiency of downstream processes of large biomolecules.

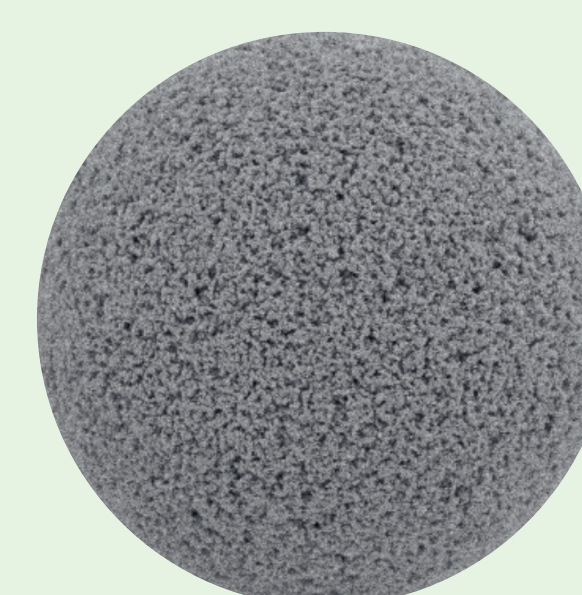
Superior Resin Characteristics

- Optimised pore size for large biomolecules
- Excellent pressure flow characteristics
- Improved resolution at high flow rates
- Increased DBC for large biomolecules
- Long lifetime for increased productivity

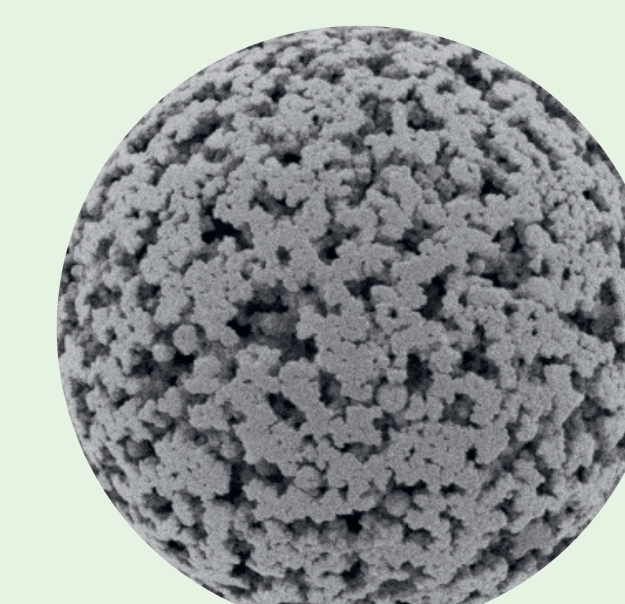
Strong anion exchanger



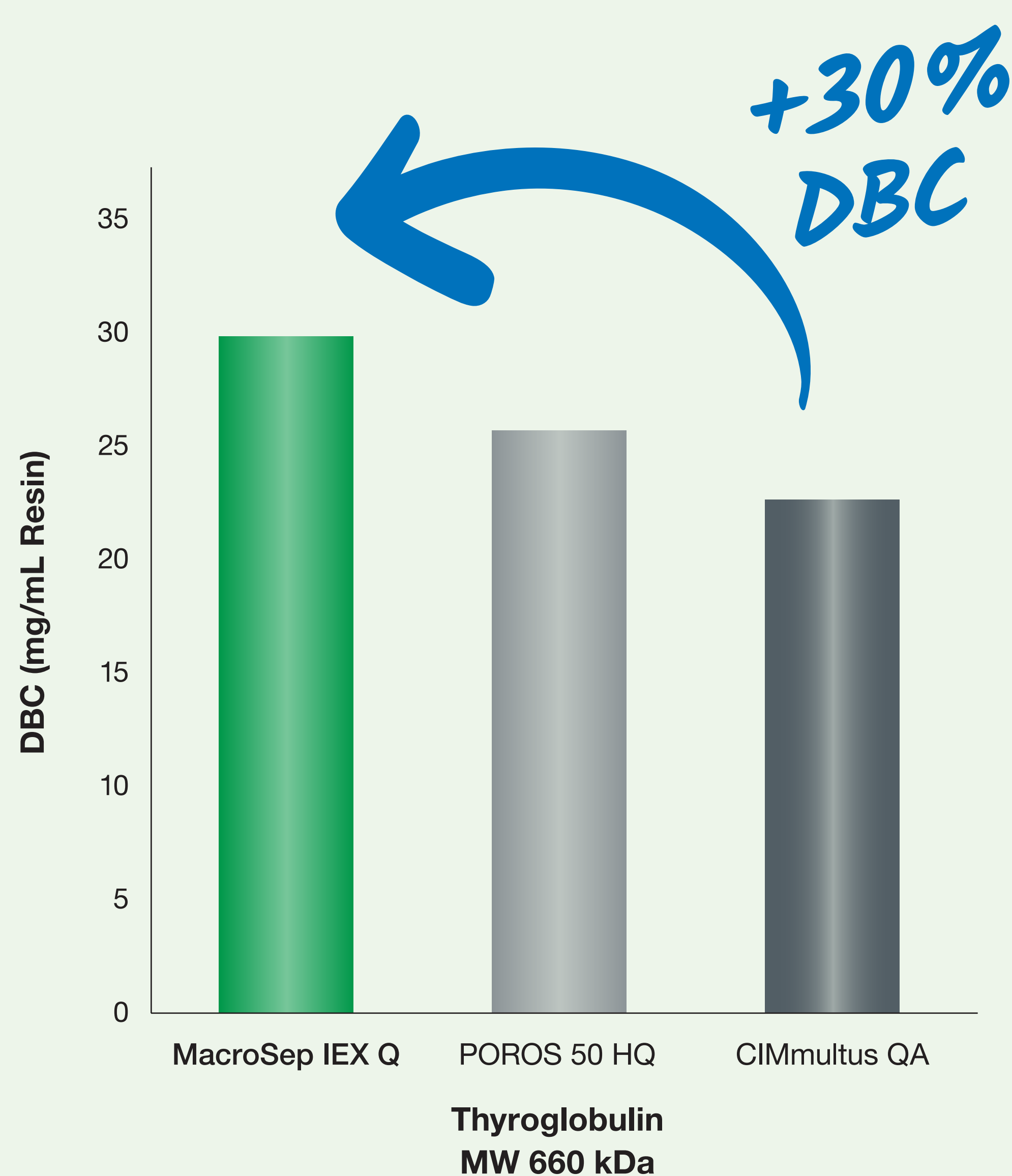
BioPro IEX SmartSep 30 μm



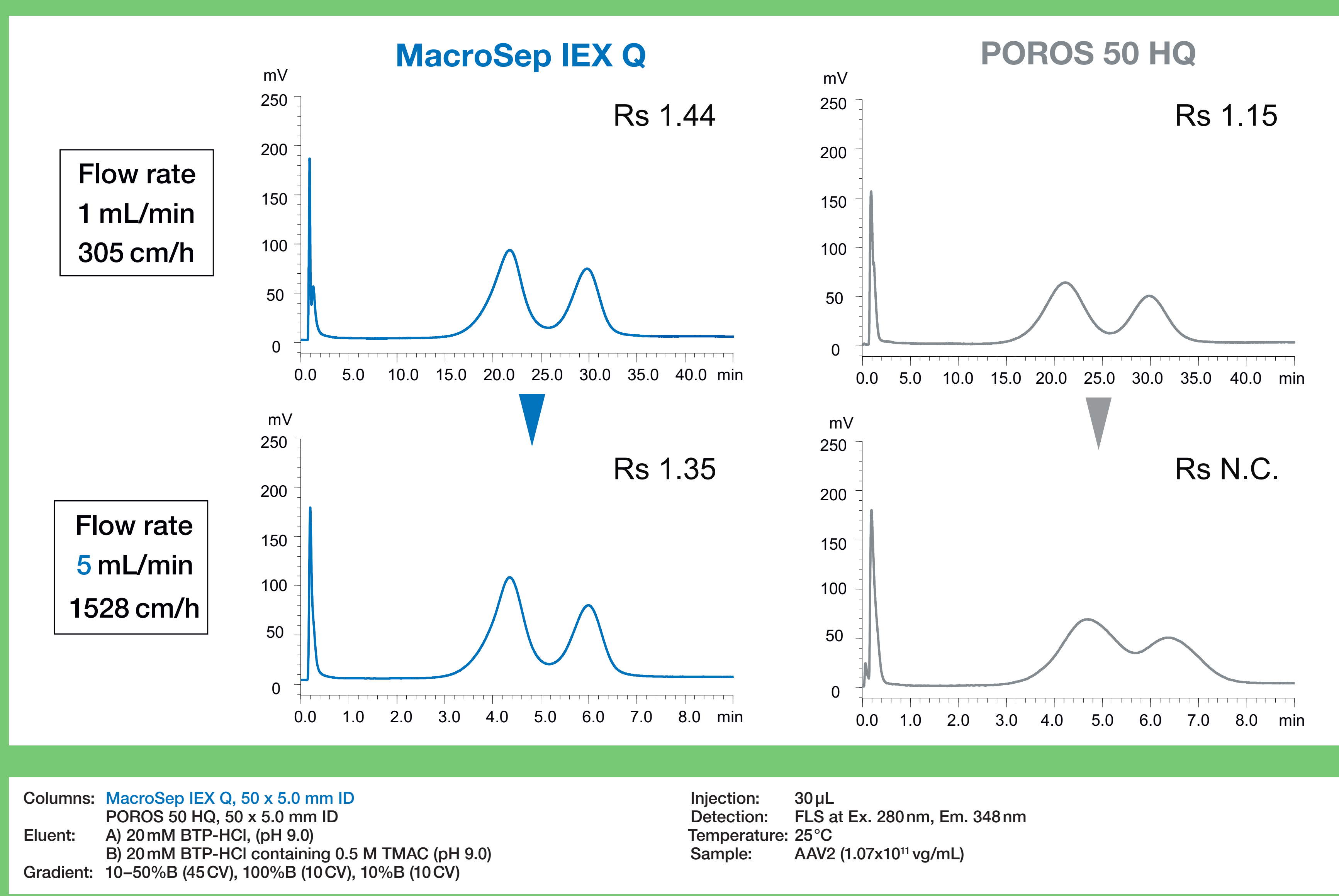
MacroSep IEX 30 μm



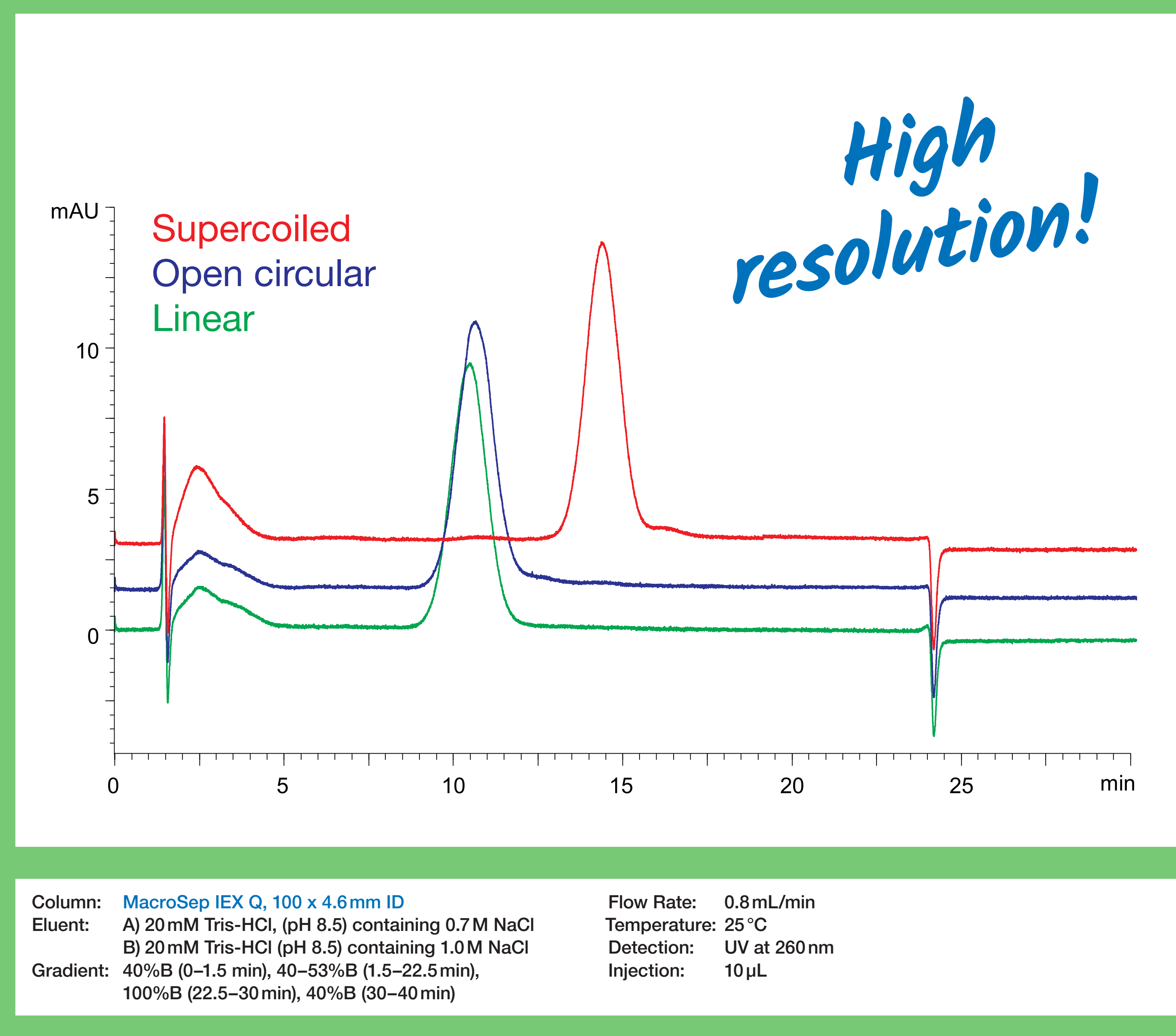
High DBC for Large Molecules



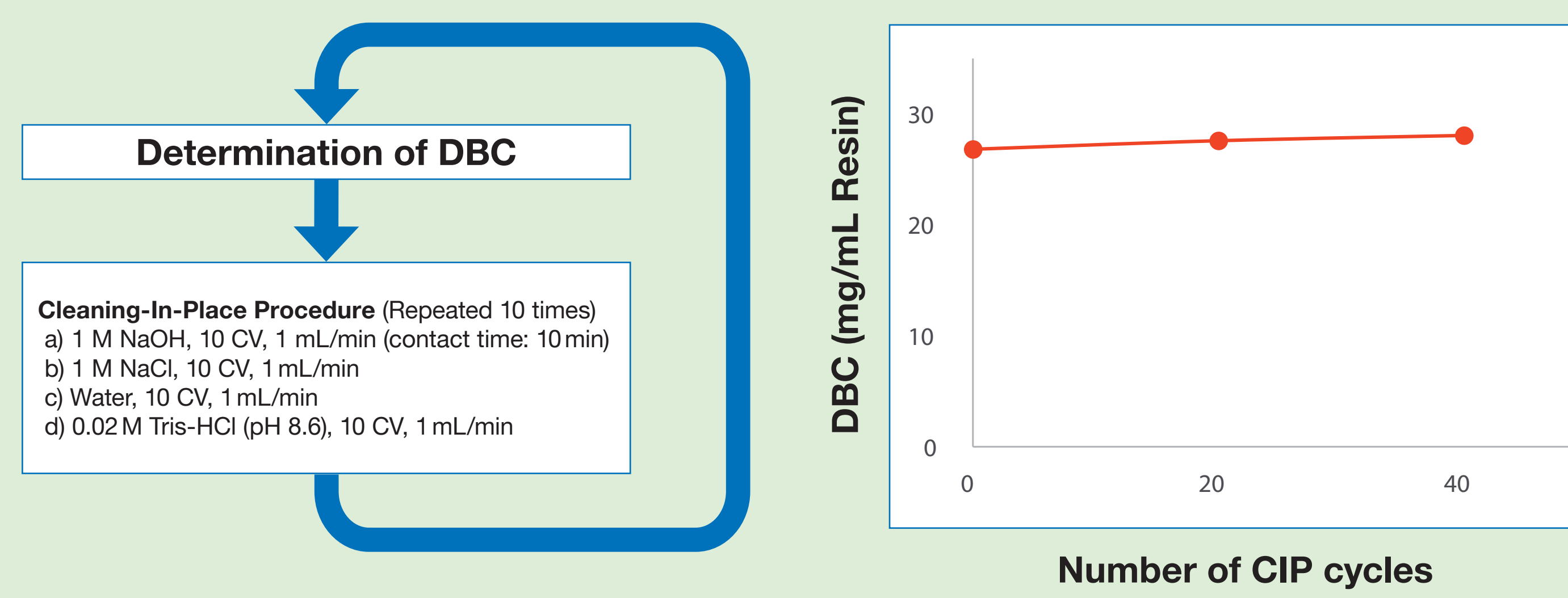
Excellent Pressure Flow Characteristics



Separation of Supercoiled, Open Circular and Linear pDNA



Proven Alkaline CIP Stability with 1 M NaOH



Specifications	MacroSep IEX Q
Matrix	methacrylate-based hydrophilic porous polymer
Charged Group	-R-N ⁺ (CH ₃) ₃
Particle Size	30 μm
Pore Size	900 nm
pH Range	2–12
Pressure Resistance	regular use: 2MPa max: 3MPa
Ion Exchange Capacity	min 0.08 meq/mL-resin
Temperature	4–60 °C

Contact us for more information