

Efficient purification of oligonucleotides using modern chromatography resins

The rise in approved oligo therapeutics has led to a growing demand on scale and optimization of oligonucleotide manufacturing. This change has created pressure on oligo manufacturers to focus on ways to secure their supply chain, decrease costs, and shrink process time.

Modern chromatography resins, like the Capto™ product family, can help increase productivity in manufacturing and thereby cut process times and overall costs. The Capto™ resins are also covered by Cytiva's security of supply program and offer extensive regulatory support.

Capto™ Q ImpRes is a modern ion exchange resin with similar performance to SOURCE™ 30Q resin with respect to yield, purity, and pool volume, combined with excellent pressure/flow properties to support the need for scalable processes.

Capto™ adhere ImpRes is a multimodal resin, which has shown even stronger separation capabilities for more complex sequences compared with Capto™ Q ImpRes.

Both Capto™ Q ImpRes and Capto™ adhere ImpRes have shown good performance for purification of oligonucleotides, including DNA, RNA, and thiolated DNA (Fig 1).

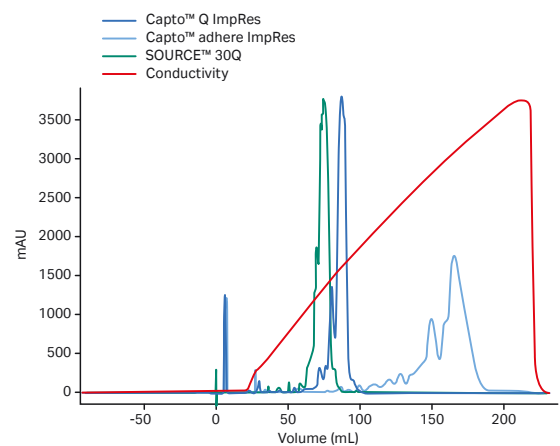


Fig 1. Comparison of selectivity and resolution for three chromatography resins using a 21-mer oligonucleotide.

With the Capto™ resins, you get:

- Compatibility with chromatography systems, such as ÄKTA™ pure, ÄKTA™ pilot 600, and ÄKTA™ ready
- Easy optimization and scale-up for improved process economy
- Flexibility in formats: available in prepacked column formats (HiTrap™, HiScreen™, and ReadyToProcess™) and in bulk to be packed in HiScale™ or AxiChrom™ columns
- Access to Cytiva's Regulatory support program
- Continuity of supply through Cytiva's Security of supply program

To learn more, visit [cytiva.com/captoresins](https://www.cytiva.com/captoresins)

Ordering Information

Product name	Pack size	Product code
HiScreen™ column with Capto™ Q ImpRes resin	1 × 4.7 mL	17547015
Capto™ Q ImpRes	1 L	17547003
HiTrap™ column with Capto™ Q ImpRes resin	5 × 5 mL	17547055
HiScreen™ column with Capto™ adhere ImpRes resin	1 × 4.7 mL	17371520
Capto™ adhere ImpRes	1 L	17371503
HiTrap™ column with Capto™ adhere ImpRes resin	5 × 5 mL	28405846

More sizes and formats are available, please contact your Cytiva representative for more information.

[cytiva.com/captoresins](https://www.cytiva.com/captoresins)

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