

Clarity® BioSolutions for Synthetic DNA/RNA

Clarity RP-Desalting™ Tubes and Well Plates

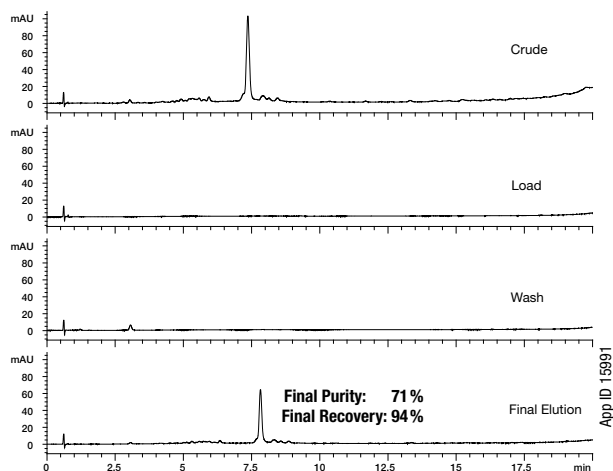
Quick, Simple Removal of Salt and Reagent

- 70 % typical purity by removing salt and excess reagent
- 80 % typical recovery of target oligo
- For cleanup of trityl-off DNA and RNA sequences
- Removes salt prior to MS analysis
- Also in a high-throughput 96-well plate format

Clarity QSP™, Oligo-WAX™, and Oligo-RP™ can be used to yield highly purified target oligonucleotides (> 85 % purity) from a synthesis mixture. For simple desalting and reagent removal of a trityl-off synthetic oligonucleotide, Clarity RP-Desalting tubes are a poly-functional silica-based C18 sorbent that provides a high capacity, fast and effective desalting process.

Desalting of Dye-Labeled DNA

Column: Clarity 3 µm Oligo-RP C18
Dimensions: 50 x 4.6 mm
Part No.: 00B-4441-E0
Mobile Phase: A: 50 mM TEAA, pH 7.5 / 5 % Acetonitrile
 B: Methanol
Gradient: A/B (90:10) to A/B (40:60) in 20 min
Flow Rate: 1 mL/min
Detection: UV @ 260 nm
Sample: 25nt DNA oligonucleotide

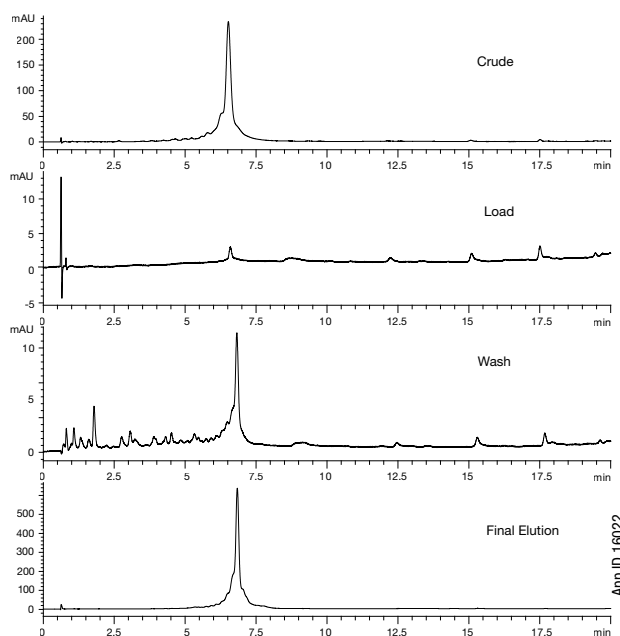


A quencher-labeled sample of DNA (25nt) with the sequence FAMTTGACTTAGACTTAGA-CTTAGTTT was desalted using Clarity RP-Desalting tubes in the 200 mg/3 mL format. Collection fractions were then analyzed for purity and recovery using the above protocol.



Crude DNA Desalting

Column: Clarity 3 µm Oligo-RP C18
Dimensions: 50 x 4.6 mm
Part No.: 00B-4441-E0
Mobile Phase: A: 50 mM TEAA / 5 % Acetonitrile
 B: Methanol
Gradient: A/B (90:10) to A/B (40:60) in 20 min
Flow Rate: 1 mL/min
Detection: UV @ 260 nm
Sample: 40nt DNA



Ordering Information

Clarity RP-Desalting Tubes		
	200 mg/3 mL*	500 mg/3 mL**
Phase	50/box	50/box
C18	8B-S041-FBJ	8B-S041-HBJ

Clarity RP-Desalting Well Plates

Part No.	Description	Unit	Price
8E-S041-SGA	Clarity RP Desalting 150 mg/well	ea	

* For 200 µmole synthesis
 ** For 1 µmole synthesis



For more information on the Clarity products please contact your Phenomenex technical consultant.