Clarion™ N

Hydrated Gel Filtration Columns

For rapid nucleic acid purification, desalting, and buffer exchange

Clarion™ N Gel Filtration Columns are specifically designed for rapid and efficient removal of small molecules from nucleic acids.

Ultrapure gel and specially treated sinter frits ensure outstanding resolution and high selectivity.

The gel matrix of Clarion™ is Sorbadex™-25, a beaded composite material comprised of ultrapure cross-linked dextran. It exhibits high selectivity, high resolution and chemical stability.

Molecules purified with Sorbadex™-25 are separated according to size. Smaller molecules pass significantly slower through the column than larger molecules. Buffer and pH effects on resolution are minimal.

The molecular weight cut-off (MWCO) for Sorbadex™-25 is 10 bases for nucleic acids. Oligonucleotides larger than 10 bases are typically purified with 1.5-fold elution volume.

Catalog No.	Name	Sample Volume	Pack Size
803010	Clarion™ N2	50 – 300 µl	50 Columns
803011	Clarion™ N5	0.5 ml	50 Columns
803012	Clarion™ N10	1.0 ml	50 Columns
803014	Clarion™ N25	2.5 ml	25 Columns
803015	Clarion™ N50	5.0 ml	10 Columns
803017	Clarion™ N100	10.0 ml	10 Columns
803018	Clarion™ N500	50.0 ml	1 Columns

NUCLEIC ACID PURIFICATION

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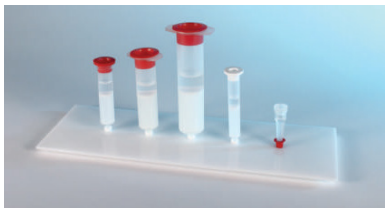
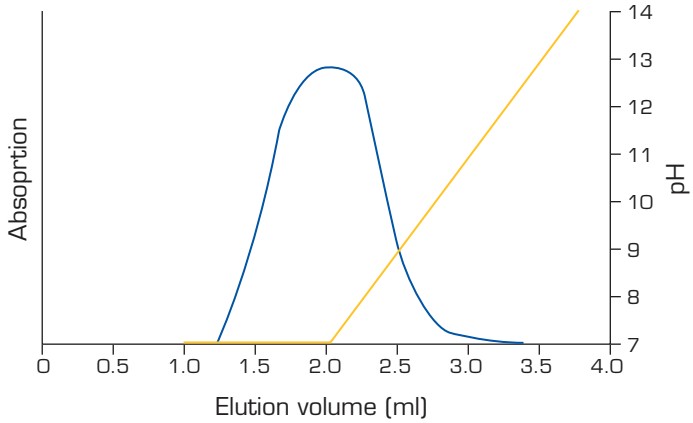
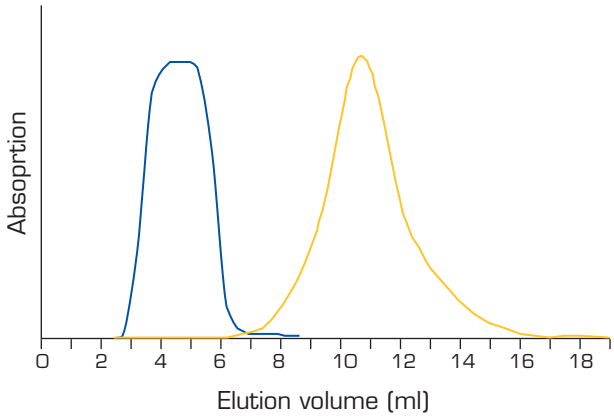


High Performance Results



Separation of 10 M ammonia and oligonucleotide after cleavage from solid support and removal of protecting groups (18-mer, Scale: 0.2 µmol, 1 ml sample volume). Elution with water.



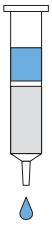
Elution profile overlay of 2.5 µmol 5-TAMRA and 0.25 µmol oligonucleotide (2.5 ml sample volume).

Easy 4 Step Protocol

1. Column Preparation

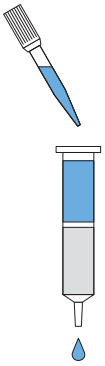
Remove the cap from the top and then the white bottom cap of the Clarion™ N Column.

Allow excess column fluid to drain (via gravity) into a suitable waste reservoir.



2. Column Equilibration

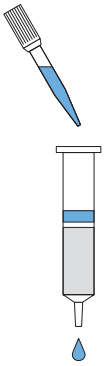
Equilibrate the column by loading it with 5x the bed volume of water or buffer (use the same buffer for equilibration and elution). Allow the equilibration buffer to drain completely.



3. Sample Application

Transfer the sample to the Clarion™ N Column.

Allow the sample to enter the gel completely.



4. Elution

Place a tube for sample collection under the Clarion™ N Column. Transfer the elution buffer to the column and elute the purified sample.