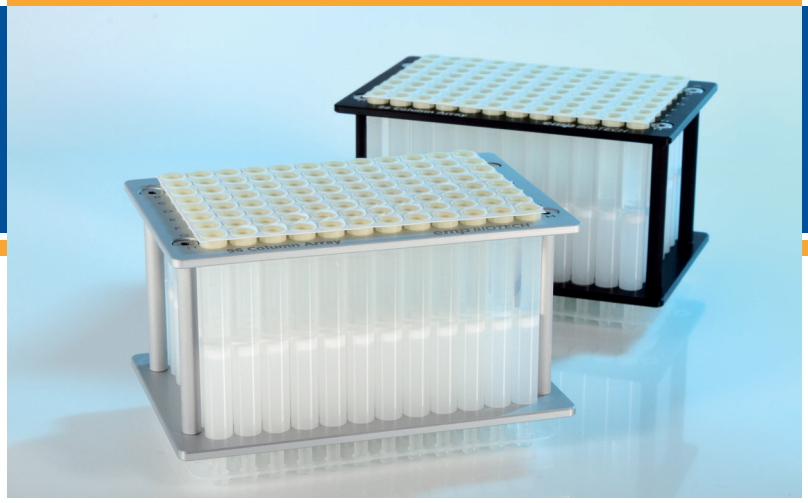
CHROMATOGRAPHY

CentriPure N96

Gel Filtration Column Array

Designed specifically for automated systems
Simultaneously processes 96 samples up to 300 µl
Standard ANSI-SBS microplate footprint

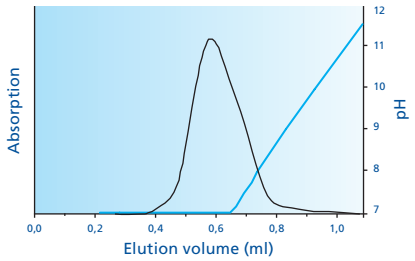


For use with gravity or vacuum protocols

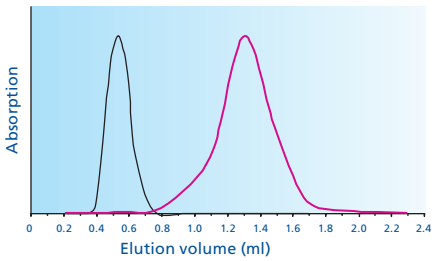
The **CentriPure N96** Column Array is designed for 96 simultaneous purifications in a convenient microplate format.

Sample volumes between 150 and 300 µl can be purified using either gravity or light vacuum.

Precision packed with **Zetadex-25** ultrapure dextran gel, it is the preferred method for removal of small molecules such as salts, dyes, ammonia, biotin, etc. from nucleic acids longer than 10 bases.



Separation of oligonucleotide from conc. ammonia after cleavage from solid support and removal of protecting groups (18-mer, Scale: 0.04 µmol, 200 µl sample volume).



Elution profile overlay of 0.1 µmol 5-TAMRA and 0.04 µmol oligo-nucleotide (200 µl sample volume).

engineered molecular precision

Catalog No. CP-0121

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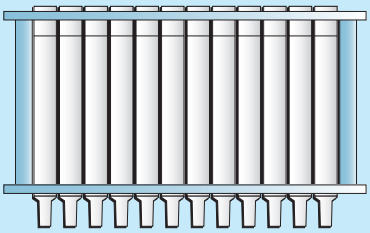
1. Column Preparation



a. Carefully remove the desired number of cap strips from the top of the array and then remove the entire bottom sealing foil.

b. Allow excess column fluid to drain (via gravity) into a suitable waste reservoir. A vacuum of 950 mbar may be used with a manifold to accelerate this process.

2. Column Washing / Equilibration

a. Wash each column 4 times (approx. 5 ml total) with either deionized water or buffer (use the same buffer for both equilibration and elution).

b. Allow the wash buffer to drain completely between each aliquot. A vacuum of 950 mbar may be used to speed up the washing process.

3. Sample Application

a. Load your samples (up to 300 µl) to each column of the array. Do not use vacuum for sample application. If the sample volume is less than 150 µl, add enough wash or equilibration buffer so that the combined volume of each sample equals 150 µl.

4. Elution

a. Using the chart below, determine the pre-run and elution volumes specific for your sample size.

b. Load the pre-run volume to each column and let it completely enter the gel bed. Do not use vacuum.

c. Place a collection plate for sample collection under the array.

d. Load the correct elution volume to each column and elute the purified sample by gravity.

Sample volume	Pre-run volume	Elution volume	Oligo recovery*	Salt removed
150 µl	200 µl	300 µl	95 %	99.9 %
200 µl	150 µl	350 µl	94 %	99.4 %
250 µl	100 µl	400 µl	96 %	99.1 %
300 µl	0 µl	500 µl	95 %	96.2 %

* determined using 64 nmol/ml 25-mer oligo in 0.8 M NaCl

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