Sorbtech
Separate. Purify. Discover.

PRODUCT DATA SHEET

Clarion™ – 96V Gel Filtration Column Array

Designed Specifically for Use with Automated Liquid Handling Systems

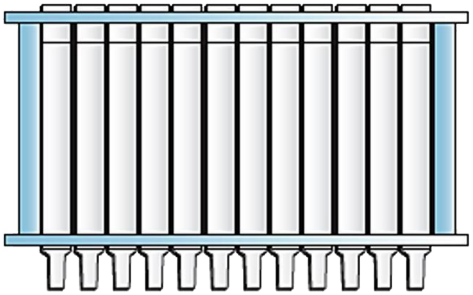
Sorbtech Clarion-96V Column Arrays have been engineered to provide uninterrupted, efficient, automated simultaneous purification of 96 biological samples (proteins, oligonucleotides, or spheroidal nanoparticles) in a fully compliant standard ANSI-SBS format.

Precision packed with SorbaDex-25 or SorbaDex-50 ultrapure dextran gels, the Clarion 96V Column Arrays permit fast removal of small molecules such as buffer salts, dyes, urea, ammonia, biotin, inhibitors, and other small molecular weight impurities.

Clarion-96V Column Arrays Features:

- **A design-specific for uninterrupted, automated well plate purification systems.**
- **Preloaded with SorbaDex-25 or SorbaDex-50, ultrapure dextran gels.**
- **Excellent well-to-well, plate-to-plate consistency of performance.**
- **Process various sample volumes using gravity or light vacuum.**

- **150 – 300µL** – Clarion 96 Gel Filtration Column Array 300-S25M
- **400µL** – Clarion 96 Gel Filtration Column Array 400-S25M
- **500µL** – Clarion 96 Gel Filtration Column Array 500-S25M



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.

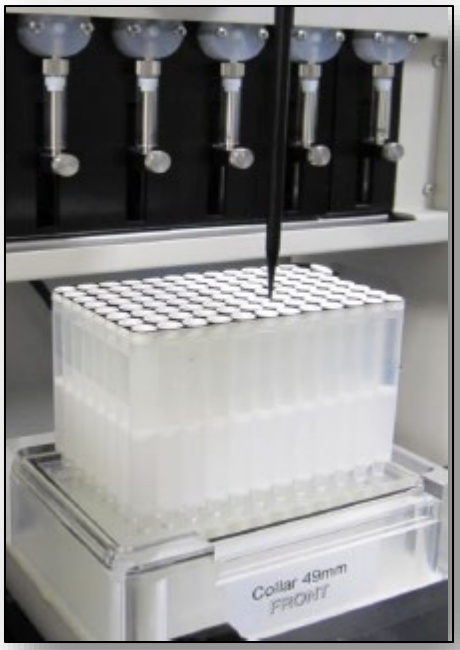
b. Allow excess column fluid to drain (via gravity) into a suitable waste reservoir. A vacuum of 950 mbar may be used with a manifold to accelerate his process.

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 500 µL) to each column of the array.

b. Do not use a 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 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.

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

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%