GENAXXON bioscience

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CentriPure 100 columns

Hydrated Gel Filtration Columns for protein purification and desalting

For volumes of up to 10mL

Product	Cat#	Package size
Centri-Pure P2 (150µL - 300µL)	CP-0110-2	2 columns
Centri-Pure P2 (150µL - 300µL)	CP-0110-50	50 columns
Centri-Pure P10 (0.5mL - 1.0mL)	CP-0107-2	2 columns
Centri-Pure P10 (0.5mL - 1.0mL)	CP-0107-50	50 columns
Centri-Pure P50 (up to 5mL)	CP-0113-2	2 columns
Centri-Pure P50 (up to 5mL)	CP-0113-10	10 columns
Centri-Pure P100 (up to 10mL)	CP-0119-2	2 columns
Centri-Pure P100 (up to 10mL)	CP-0119-10	10 columns

Product description

CentriPure Gel Filtration Columns are designed for rapid and efficient removal of small molecules (salts, dyes, ammonia, haptens, biotin, etc.) from antibodies, enzymes and other proteins.

The gel matrix of **CentriPure** is **Zetadex-25,** a beaded composite material developed by ***emp BIOTECH*** and composed partially of polymerized dextran. It exhibits high selectivity, high resolution and chemical stability.

Molecules purified with **Zetadex-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 size exclusion cut-off for **Zetadex-25** is 5kDa for proteins. Proteins larger than 5kDa in a sample volume between 200µL (CentriPure 2) and 10mL (CentriPure 100) can be purified with an elution volume of about 300µL (CentriPure 2) to 14mL (CentriPure 100).

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Four Step Protocol

1. Column Preparation

Remove the cap from the top and then the bottom cap of the CentriPure 100 Column.

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

2. Column Preparation

Choose a buffer for your specific application and use this same buffer for both equilibration and elution steps.

To equilibrate the column, allow the equilibration buffer to ender the gel bed completely and continue elution until approximately 100mL of buffer has been eluted.

3. Sample Application

Column optimised for 10mL!

Transfer the sample to the CentriPure 100 Column.

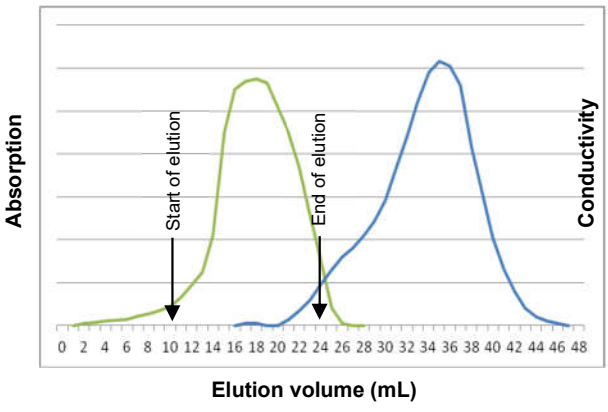
Allow the sample to enter the gel bed completely.

4. Elution

Place a tube for sample collection under the CentriPure 100 Column.

Transfer 14mL of buffer to the column and elute the purified sample.

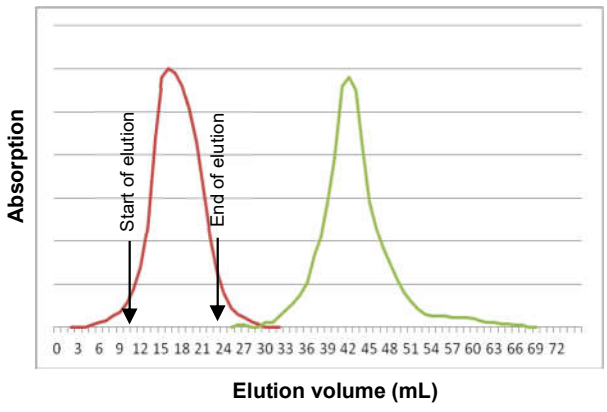
High Performance Results:



Desalting of protein solution

Ovalbumin (280nm): green line
NaCl (conductivity): blue line

Elution profile overlay of albumin (10mg OvA) and 0.8M NaCl. Elution with water (10.0mL sample volume).



Removal of fluorescent dye

Ovalbumin (280nm): red line
FAM (490nm): green line

Elution profile overlay of albumin (10mg OvA) and free dye (5µmol FAM) in DMSO/NaHCO3. Elution with water (10.0mL sample volume).

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