GENAXXON bioscience

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Centri-Pure P2

Hydrated Gel Filtration Columns for protein purification and desalting.

For volumes of up to 300µL

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

Centri•Pure 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 **Centri•Pure** 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 (Centri-Pure P2) and 10mL (Centri-Pure P100) can be purified with an elution volume of about 300µL (Centri-Pure P2) and 14mL (Centri-Pure P100).

Elution between 150µL and 300µL (P2 columns)

Sample volume	Forerun volume	Elution volume	Protein recovery	Removal of salt
150µL	200µL	300µL	98%	99.9%
200µL	150µL	350µL	98%	99.6%
250µL	100µL	400µL	98%	99.6%
300µL	---	500µL	98%	98.9%

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We Aim for Your Success.
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Four Step Protocol

1. Column Preparation

Remove the cap from the top and then the bottom cap of the Centri-Pure P2 Column.

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

2. Column Preparation

Equilibrate the column with approximately 5mL of the required buffer (use the same buffer for both equilibration and elution).

Allow the equilibration buffer to enter the gel bed completely.

3. Sample Application

Transfer 200µL sample to the Centri-Pure P2 Column.

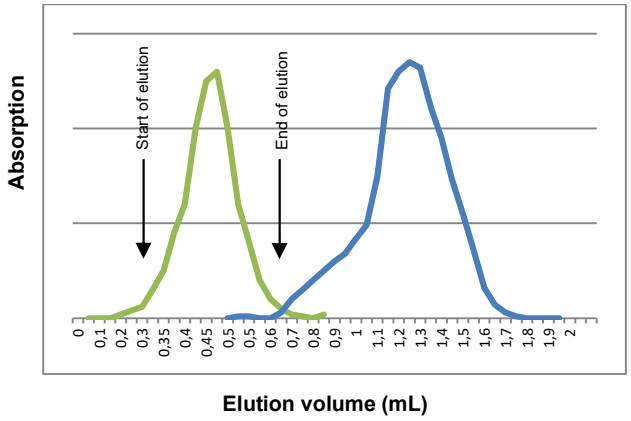
Allow the sample to enter the gel bed completely.

4. Elution

Place a tube for sample collection under the Centri-Pure P2 Column.

Transfer 350µL of buffer to the column and elute the purified sample.

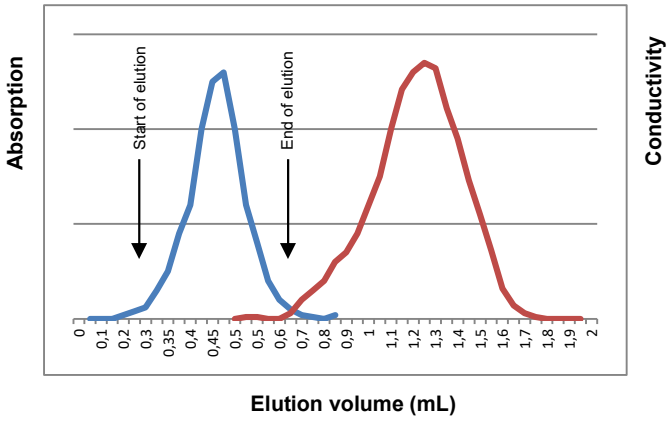
High Performance Results:



Removal of fluorescent dye TAMRA (490nm; blue line) from Ovalbumin (280nm; green line)

Elution profile overlay of ovalbumin (1mg/mL OVA) and free dye (0.1µmol) in DMSO/NaHCO3.

Elution with water (200µL sample volume).



Desalting of Ovalbumin (280nm; blue line) from NaCl (conductivity; red line).

Elution profile overlay of albumin (1mg albumin) and in 1mL 0.8M NaCl.

Elution with water (200µL sample volume).

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