

CentriPure Gel Filtration Columns

Ready-to-use columns for nucleic acids, antibodies and other proteins

Cat. No. CP-0501

CentriPure 2 - Z25M

for 150–300 µL sample volume

Cat. No. CP-0502

CentriPure 5 - Z25M

for 0.5 mL sample volume

Cat. No. CP-0504

CentriPure 25 - Z25M

for 2.5 mL sample volume

Cat. No. CP-0505

CentriPure 50 - Z25M

for 5.0 mL sample volume

Cat. No. CP-0506

CentriPure 100 - Z25M

for 10 mL sample volume

Cat. No. CP-0507

CentriPure 200 - Z25M

for 20 mL sample volume

Cat. No. CP-0508

CentriPure 300 - Z25M

for 30 mL sample volume

Cat. No. CP-0509

CentriPure 400 - Z25M

for 40 mL sample volume

Cat. No. CP-0510

CentriPure 500 - Z25M

for 50 mL sample volume

Cat. No. CP-0511

CentriPure 1000 - Z25M

for 100 mL sample volume

Cat. No. CP-0132-Z005.0-001

CentriPure Trial Kit

One column of each for sample volumes of 200 µL, 500 µL, 1 mL, 2.5 mL, 5 mL

Hazard and Precautionary Statements



WARNING

H317	Contains ProClin™ 150. May cause an allergic skin reaction.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves, protective clothing, eye and face protection.
P302/P352	If on skin: Gently wash with soap and water.
P305/P338/P351	If in eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses and continue rinsing.

emp BIOTECH GmbH · Robert-Rössle-Str. 10 · 13125 Berlin · Germany
Tel. +49 (0)30 94 89 22 01 · info@empbiotech.com · www.empbiotech.com

emp BIOTECH GmbH is an ISO 9001:2015 certified company
registration number 011001300789 (TÜV Rheinland)

AM-1005-01 · 01.2023



Cat. No. CP-0503

CentriPure 10-Z25M

Hydrated gel filtration column for rapid purification, desalting, and buffer exchange of biomolecules:

- Nucleic acids
- Proteins and antibodies



For rapid desalting or buffer exchange

- of oligonucleotides longer than 10 bp/nt.
- of proteins larger than 5 kD
- of spheroidal nanoparticles greater than 2 nm Ø.

Purifies a 1 mL sample into a final volume of 1.5 mL.

Contains Zetadex-25 size exclusion resin.

Instructions for use

1. Column Preparation



Remove the cap from the top and then the bottom cap of the **CentriPure 10** column.

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

2. Column Equilibration



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 enter the gel bed completely and continue elution until approximately 15 mL of buffer has been eluted.

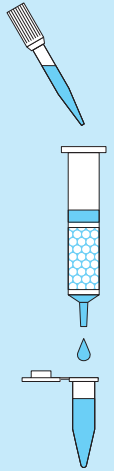
3. Sample Application



Optimised for 1 mL.

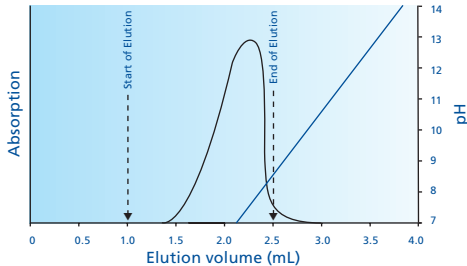
Transfer the sample to the **CentriPure 10** column. Allow the sample to enter the gel bed completely.

4. Elution

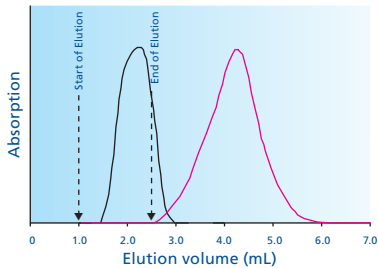


Place a tube for sample collection under the **CentriPure 10** column. Add 1.5 mL elution buffer to the column and elute the purified sample.

Typical application examples (nucleic acids):

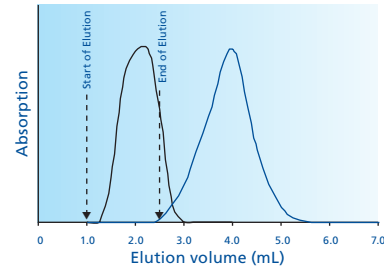


Separation of conc. ammonia and oligonucleotide after cleavage from solid support and removal of protecting groups (18-mer, Scale: 0.2 μmol , 1 mL sample volume)

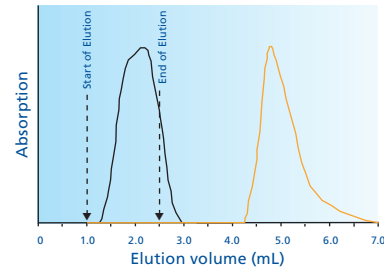


Elution profile overlay of 0.5 μmol TAMRA and 0.2 μmol oligonucleotide (1 mL sample volume)

Typical application examples (proteins):



Desalting of protein solution (1 mg anti-rabbit IgG in 1 mL 0.8 M NaCl), elution with water (black line: protein – 280 nm; blue line: salt – $\mu\text{S}/\text{cm}$)



Separation of protein (1 mg anti-rabbit IgG, black line – 280 nm) from excess free dye (0.1 μmol FITC, orange line – 490 nm) after coupling reaction in DMSO/ NaHCO_3 , elution with PBS