## Overview for varying sample volumes (150 – 300 µL)

| Sample volume | Chase 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 0.064 µmol/mL oligonucleotide in 0.8 M NaCl

| Sample volume | Chase volume | Elution volume | Protein recovery* | Salt removed* |
|---|---|---|---|---|
| 150 µL | 200 µL | 300 µL | 98% | 99.9% |
| 200 µL | 150 µL | 350 µL | 97% | 99.6% |
| 250 µL | 100 µL | 400 µL | 98% | 99.6% |
| 300 µL | 0 µL | 500 µL | 98% | 98.9% |

* determined using 1 mg/mL ovalbumin in 0.8 M NaCl

## CentriPure Gel Filtration Columns

Our ready-to-use columns are available for the following sample volumes: 0.15-0.3 mL, 0.5 mL, 1 mL, 2.5 mL, 5 mL, 10 mL, 20 mL, 30 mL, 40 mL, 50 mL, 100 mL and 150 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. |

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

AM-1001-03 · 04.2025

**Product Code: CP-0501**

# CentriPure 2-Z25M

Hydrated gel filtration column for rapid purification, desalting, and buffer exchange of biomolecules including nucleic acids, proteins, and antibodies.

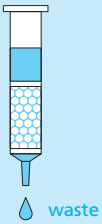
For rapid desalting or buffer exchange
- of oligonucleotides longer than 10 bp/nt.
- of proteins larger than 5 kDa
- of spheroidal nanoparticles greater than 2 nm Ø.

Purifies samples of 150-300 µL into a final volume of 300-500 µL.

Contains Zetadex-25 size exclusion resin, Medium grade.

## Instructions for use

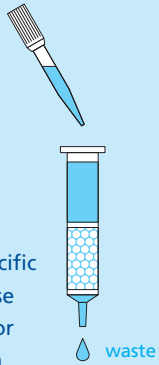
## 1 Column Preparation




First, hold the column upright and use your thumb to gently push the top cap upward until it dislodges. Then, remove the bottom cap.

Allow any excess column fluid to drain by gravity into a suitable waste reservoir.

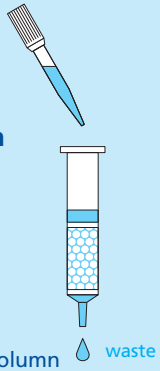
## 2 Column Equilibration




Select a buffer suited to your specific application and use the same buffer for both equilibration and elution.

To equilibrate the column, allow the equilibration buffer to fully enter the gel bed, then continue elution until approximately 5 mL of buffer has been collected.

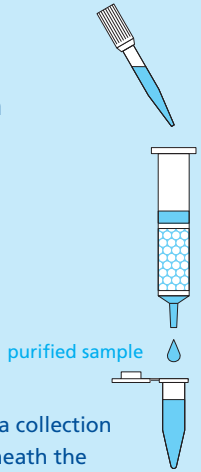
## 3 Sample Application




Transfer the sample to the **CentriPure 2** column and allow it to fully enter the gel bed.

If required, add elution buffer* to the column as a chase volume and allow it to enter the gel bed completely.

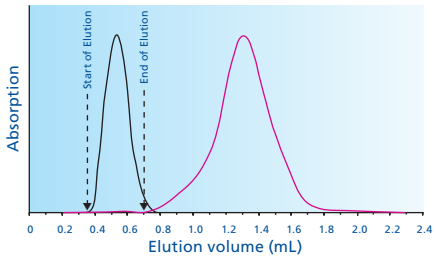
## 4 Elution



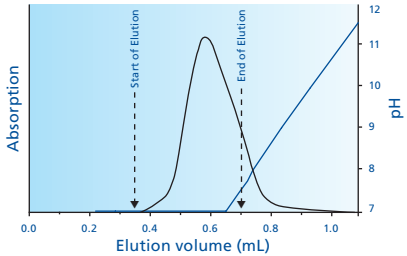

Position a collection tube beneath the **CentriPure 2** column. Add elution buffer* to the column and elute the purified sample.

* please refer to the table on the back page for sample, chase and elution volumes

## Common examples (nucleic acids):

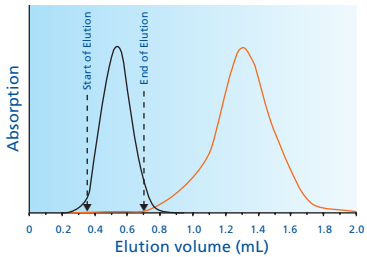



Elution profile overlay of 0.1 µmol 5-TAMRA and 0,04 µmol oligonucleotide (200 µL sample volume)

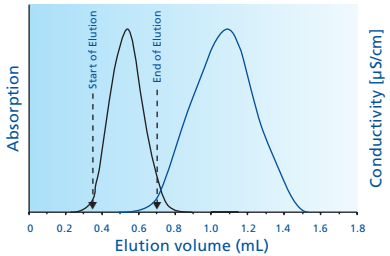



Separation of oligonucleotide from conc. ammonia after cleavage from solid support and removal of protecting groups (18-mer, Scale: 0.04 µmol, 200 µL vol.)

## Common examples (proteins):




Elution profile overlay of ovalbumin (1 mg/mL) and free dye (TAMRA, 0,1 µmol) in a 200 µL sample volume.




Desalting of protein solution (1 mg albumin (OvA) in 1 mL 0.8 M NaCl), elution with water (200 µL sample volume)