

Zeba™ Micro Spin Desalting Columns, 7K MWCO

89877 89878

1500.3

Number	Description
89877	Zeba Micro Spin Desalting Columns, 75µL, 25 columns
89878	Zeba Micro Spin Desalting Columns, 75µL, 50 columns

Note: Each column contains 150µL of slurry in 0.03% sodium azide. This product is recommended for processing compounds > 7,000 Da.

Storage: Upon receipt store at 4°C. Product is shipped at ambient temperature.

Introduction

The Thermo Scientific Zeba Micro Spin Desalting Columns contain a high-performance resin that offers exceptional desalting and protein recovery characteristics. Small sample volumes (2-12µL) containing as low as 20µg/mL of protein can be processed while providing ≥ 95% retention of salts and other small molecules (< 1,000 Da). These columns require no chromatography system or cumbersome column preparation or equilibration. Additionally, the spin-column method eliminates the need to wait for samples to emerge by gravity flow, allowing multiple-sample processing in ~6 minutes.

Desalting Procedure

For maximal protein recovery, add 3µL of buffer or water above the sample as a stacker. This stacker may be omitted if desired; however, a reduction in protein recovery will result.

A. Additional Materials Required

- Variable-speed bench-top microcentrifuge
- 1.5 microcentrifuge collection tubes

B. Spin Column Preparation

1. Remove column's bottom closure and loosen cap (do not remove cap).
2. Place column in a 1.5-2.0mL microcentrifuge collection tube and centrifuge at 1,000 × g for 1 minute to remove storage solution.
3. Blot bottom of column to remove excess liquid.

C. Sample Loading

1. Place column in a new collection tube, remove cap and apply 2-12µL of sample to the top of the compact resin bed.
2. Apply a 3µL stacker of ultrapure water or buffer to the top of the resin bed after the sample has absorbed.
3. Centrifuge at 1,000 × g for 2 minutes to collect the desalted sample. Discard desalting column after use.

Buffer Exchange Procedure

A. Additional Materials Required

- Variable-speed bench-top microcentrifuge
- 1.5-2.0mL microcentrifuge collection tubes
- Buffer for exchange

B. Spin Column Preparation

1. Remove column's bottom closure and loosen cap (do not remove cap).
2. Place column in a 1.5-2.0mL microcentrifuge collection tube.
3. Centrifuge at $1,000 \times g$ for 1 minute to remove storage solution.
4. Add 50 μ L of buffer on top of the resin bed. Centrifuge at $1,000 \times g$ for 1 minute to remove buffer.
5. Repeat step 4 two to three additional times, discarding buffer from the collection tube.

C. Sample Loading

1. Place column in a new collection tube, remove cap and apply 2-12 μ L of sample to the top of the compact resin bed.
2. Apply a 3 μ L stacker of buffer to the top of the resin bed after the sample has absorbed.
3. Centrifuge at $1,000 \times g$ for 2 minutes to collect the sample. Discard desalting column after use.

Troubleshooting

Problem	Possible Cause	Solution
Sample or buffer does not flow through resin	Centrifugation problem	Ensure that centrifuge is in proper working condition
		Ensure bottom closure is removed
Sample contamination	Improper sample loading	Load sample directly to the center of the resin bed; carefully touch pipette tip to resin to expel all sample
		Avoid contact with sides of column
	Centrifugation problem	Do not exceed recommended speed or centrifugation time
Low yield	No stacker used	Apply a 3 μ L water or buffer stacker after the sample has entered the resin

Related Thermo Scientific Products

- 89870** **PepClean™ C-18 Spin Columns**, 25/pkg.
- 23235** **Micro BCA™ Protein Assay Kit**, sufficient reagents to perform 480 standard tube assays
- 23225** **BCA™ Protein Assay Kit**, sufficient reagents to perform 500 standard tube assays
- 89879** **Zeba Micro Spin Columns (Empty)**, 50 columns with screw caps

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Current product instructions are available at www.thermoscientific.com/pierce. For a faxed copy, call 800-874-3723 or contact your local distributor.

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