

Zeba™ Desalt Spin Columns, 0.5 ml

89882 89883

1515.1

Number	Description
89882	Zeba™ Desalt Spin Columns, 0.5 ml , 25 columns, each column can process a 30-130 µl sample, resin slurry contains 0.05% sodium azide
89883	Zeba™ Desalt Spin Columns, 0.5 ml , 50 columns, each column can process a 30-130 µl sample, resin slurry contains 0.05% sodium azide

Note: Recommended for processing compounds > 7,000 Da

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

Introduction

The Zeba™ Desalt Spin Columns contain a high-performance resin that offers exceptional desalting and protein recovery characteristics. Sample volumes (30-130 µl) containing as low as 20 µg/ml of protein can be processed providing exceptional protein recovery and ≥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

A. Additional Materials Required

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

A. Spin Column Preparation

1. Remove column's bottom closure and loosen cap (do not remove cap).
2. Place column in a 1.5-2.0 ml microcentrifuge collection tube.
3. Centrifuge at 1,500 × g for 1 minute to remove storage solution.
4. Blot bottom of column to remove excess liquid.
5. Place a mark on the side of the column where the compacted resin is slanted upward. Place column in the microcentrifuge with the mark facing outward in all subsequent centrifugation steps. Improper orientation will result in reduced desalting efficiency.

C. Sample Loading

1. Place column in a new collection tube, remove cap and slowly apply 30-130 µl of sample to the center of the compact resin bed.
2. (Optional) For sample volumes < 70 µl apply a 15 µl stacker of ultrapure water or buffer to the top of the resin bed after the sample has fully absorbed to ensure maximal protein recovery.
3. Centrifuge at 1,500 × g for 2 minutes to collect desalted sample.
4. Discard desalting column after use.

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Buffer Exchange Procedure

A. Additional Materials Required

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

B. Protein Desalting Spin Column Preparation

1. Remove column's bottom closure and loosen cap (do not remove cap).
2. Place column in a 1.5-2.0 ml microcentrifuge collection tube.
3. Centrifuge at 1,500 × g for 1 minute to remove storage solution.
4. Place a mark on the side of the column where the compacted resin is slanted upward. Place column in the microcentrifuge with the mark facing outward in all subsequent centrifugation steps.
5. Add 300 µl of buffer on top of the resin bed. Centrifuge at 1,500 × g for 1 minute to remove buffer.
6. Repeat Step 5 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 30-130 µl of sample to the top of the compact resin bed.
2. (Optional) For sample volumes <70 µl apply a 15 µl stacker of ultrapure water or buffer to the top of the gel bed after the sample has fully absorbed to ensure maximal protein recovery.
3. Centrifuge at 1,500 × g for 2 minutes to collect the sample.
4. 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 15 µl water or buffer stacker after the sample has entered the gel bed

Related Pierce Products

- 89877** **Zeba™ Micro Desalt Spin Columns**, 25 columns, for samples of 2-12 µl
- 89879** **Zeba™ Micro Spin Columns (Empty)**, 50 columns with screw caps
- 89868** **Economy Mini-Spin Columns**, 50 columns with screw caps
- 69574** **Slide-A-Lyzer® MINI Dialysis Units**, 10K MWCO, 10 units
- 23225** **BCA™ Protein Assay Kit**, sufficient to perform 500 standard tube assays

U.S. patent pending on Zeba™ Column Technology.

BCA™ Technology is protected by U.S. Patent # 4,839,295.

The most current versions of all product instructions are available at www.piercenet.com. For a faxed copy, contact customer service (in the USA call 800-874-3723) or your local distributor.

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