INSTRUCTIONS

Zeba™ Micro Desalt Spin Columns

PIERCE
3747 N. Meridian Road
P.O. Box 117
Rockford, IL 61105

89877 89878

1500.0

Number	Description
89877	**Zeba™ Micro Desalt Spin Columns,** 25 columns, each column contains 150 µl of gel slurry in 0.03% sodium azide
89878	**Zeba™ Micro Desalt Spin Columns,** 50 columns, each column contains 150 µl of gel slurry in 0.03% sodium azide
	Note: Recommended for processing compounds >7,000 MW
	Storage: Upon receipt store at 4°C. Product is shipped at ambient temperature.

Introduction

The Zeba™ Micro Desalt Spin Columns contain a high-performance resin that offers exceptional desalting and protein recovery characteristics. Small sample volumes (2-12 µl) containing as low as 200 ng of protein can be processed while providing ≥95% retention of salts and other small molecules (<1,000 MW). 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 3 µl of buffer or water above the sample as a stacker. This stacker can 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 1.5-2.0 ml microcentrifuge collection tube.
3. Centrifuge at 1,000 x *g* for 1 minute to remove storage solution.
4. Blot bottom of column to remove excess liquid.

C. Sample Loading

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

Warranty: Pierce products are warranted to meet stated product specifications and to conform to label descriptions when used and stored properly. Unless otherwise stated, this warranty is limited to one year from date of sale for products used, handled and stored according to Pierce instructions. Pierce's sole liability for the product is limited to replacement of the product or refund of the purchase price. Pierce products are supplied for laboratory or manufacturing applications only. They are not intended for medicinal, diagnostic or therapeutic use. Pierce products may not be resold, modified for resale or used to manufacture commercial products without prior written approval from Pierce Biotechnology. Pierce strives for 100% customer satisfaction. If you are not satisfied with the performance of a Pierce product, please contact Pierce or your local distributor.

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 Micro 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 1,000 x *g* for 1 minute to remove storage solution.
4. Add 50 µl of buffer on top of the gel bed.
5. Centrifuge at 1,000 x *g* for 1 minute to remove buffer.
6. Repeat steps 4 and 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 2-12 µl of sample to the top of the compact resin bed.
2. Apply a 3 µl stacker of buffer to the top of the gel bed after the sample has absorbed.
3. Centrifuge at 1,000 x *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 3 µl water or buffer stacker after the sample has entered the gel bed

Related Pierce 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

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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