



Product Information & Manual

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SpinDesalt Column

Cat no. LDG0008RC

Product Overview

Package

SpinDesalt Column, 0.5 mL, 5 columns

Introduction

Leadgene SpinDesalt Column is a convenient and rapid product that is suitable for desalting, buffer exchange, or removal of small molecules from proteins or other macromolecular samples with a molecular weight larger than 5 kDa. The SpinDesalt Column is filled with 0.5 mL of Smartdex G-25, which efficiently separates proteins from small molecules (such as salt and other small molecules like biotin).

Storage

SpinDesalt Column should be store at 2-8°C.

Procedure

Preparation of the equilibration buffer

The equilibration buffer can be chosen according to the buffer you want to replace. It's recommended to filter it with a 0.22 µm or 0.45 µm membrane before using the buffer.

Preparation of the sample

It is recommended to centrifuge the sample or filter it with a 0.22 µm or 0.45 µm membrane before loading, to reduce the impact of contaminant.

SpinDesalt Column protocol

- (1) Prepare a SpinDesalt Column by breaking off the bottom closure and placing the column into a 2 mL

collection tube.

- (2) Centrifuge the column at 1,000 × g for 1 minute, discard the storage buffer and return column to the same collection tube.
- (3) Adding 0.25 mL of the equilibration buffer to the top of the resin bed and centrifuging at 1,000 × g for 1 minute. Discard the flowthrough and repeat this step 3 times.
- (4) Place the column into a new 1.5 mL collection tube and apply approximately 0.1-0.2 mL of the sample directly onto the resin bed. Centrifuge the column at 1,000 × g for 1 minute.
- (5) The collected flowthrough solution is the purified sample.

Important notes

- (1) Please break off the bottom closure before using the column.
- (2) Please centrifuge the column at 1,000 × g.
- (3) Each column can process a 100-200 µL sample at a time.
- (4) The recovery rate of the SpinDesalt Column is related to the type of protein and other biomolecules, usually exceeding 85%. Increasing the sample concentration or volume can improve the recovery rate.
- (5) If sample < 0.1 mL, please use the equilibration buffer to adjust the volume to at least 0.1 mL to increase the recovery rate.
- (6) The resin bed of SpinDesalt Column can be temporarily stored in the equilibration buffer.

Disclaimer

This product is for research use only and is not intended for diagnostic use.

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