

SDS-Out™ Precipitation Kit

20308

0741.2

| Number | Description |
|--------|--|
| 20308 | <p>SDS-Out Precipitation Kit, contains sufficient reagent for 200mL of sample</p> <p>Kit Contents:</p> <p>SDS-Out Precipitation Reagent, 10mL</p> <p>Spin Cup Columns, 12 each, contains 0.45µm cellulose acetate filter</p> <p>Microcentrifuge Tubes, 2mL, 12 each</p> |

Storage: Upon receipt store products at 4°C. These products are shipped at ambient temperature.

Introduction

The Thermo Scientific SDS-Out Precipitation Kit is for removing excess SDS from small sample volumes. Sodium dodecyl sulfate (SDS) is a detergent typically used for solubilizing proteins. Several methods for removing excess SDS from protein samples include prolonged dialysis, anion exchange chromatography and acetone precipitation. These methods are often time-consuming, tedious and unsuitable for low-volume protein samples. The SDS-Out Precipitation Kit is easy to use and provides excellent protein recovery from low-volume samples (Table 1).

Note: SDS-Out Precipitation Reagent does not remove SDS that is bound to protein.

Table 1. Protein recovery after using the Thermo Scientific SDS-Out Precipitation Kit. Each sample contained 0.5mg of protein in 0.5mL. BSA = bovine serum albumin; STI = soybean trypsin inhibitor; OVS = ovalbumin.

| Initial SDS Concentration | % Protein Recovery* | | | | | | |
|------------------------------|---------------------|--------------|------|------|----------------|-----------|-----------|
| | BSA | Cytochrome C | STI | OVA | Ribonuclease A | Myoglobin | Human IgG |
| 1% | 100 | 100 | 100 | 93.8 | 100 | 97.9 | 76.2 |
| 0.5% | 98.4 | 100 | 98.8 | 98.1 | 100 | 100 | 88.7 |
| 0.25% | 98.0 | 100 | 98.5 | 99.6 | 100 | 100 | 92.7 |
| 0.125% | 97.5 | 100 | 99.0 | 99.8 | 100 | 100 | 100 |

*Protein recovery was evaluated by measuring its absorbance at 280nm.

Procedure for SDS Removal

1. Add one volume of SDS-Out Precipitation Reagent to 20 volumes of protein solution (e.g., 19µL of reagent to 380µL of protein sample). Use the microcentrifuge tube provided in the kit for the precipitation.

Note: Maximum capacity for the Spin Cup Columns is 500µL.

2. Vortex to mix. Incubate tube in an ice bath for 20 minutes.
3. Centrifuge the tube at 10,000 × g for 10 minutes.
4. Transfer supernatant to a spin cup column and centrifuge for 1 minute at 10,000 × g to clarify the supernatant.

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