

## Liquid Sample Protein Extraction Kit

**Cat:** EX1151

**Size:** 50T/100T

**Storage:** 2-8°C, valid for 1 year.

### Kit Components:

Kit Components	50T	100T	Storage
Reagent A: Protein Extraction Reagent A	6mL	12mL	RT
Reagent B: Protein Extraction Reagent B	11mL	22mL	2-8°C
Reagent C: Protein Extraction Reagent C	6mL	12mL	2-8°C

### Introduction:

Liquid sample protein extraction kit is suitable for extracting protein from cell culture supernatant, bacteria, yeast culture supernatant, cerebrospinal fluid, urine and other liquid samples. The extraction process is simple and convenient, and can be completed within 1h. The extracted proteins can be used for downstream protein studies such as Western Blotting and protein electrophoresis.

### Self-prepared Reagents and Instruments:

Centrifuge, oscillator, vortex mixer, pipette, refrigerator, ice box, PBS buffer, protein quantification kit, centrifuge tube, suction tip, disposable gloves.

### Product Features:

1. Easy to use, shorten the time of protein extraction to about 1h.
2. Containing protein stabilizer, the extracted protein is stable.
3. High repeatability

### Protocols:

#### First, use precautions

1. Before the formal experiment, please select a few samples for pre-experiment, in order to optimize the experimental conditions and achieve the best experimental results.
2. The reagent in the screw cap trace reagent tube should be centrifuged briefly before opening the cap, and the liquid on the cap and inner wall should be centrifuged to the bottom of the tube to avoid the loss of the reagent when opening the cap.
3. All reagents must be pre-cooled during the experiment; All appliances must be pre-cooled in -20°C refrigerator. The sample must be kept at a low temperature during the whole process.
4. Do not mix with other brands of reagents, otherwise it will affect the use effect.
5. Contamination of the sample or reagent with bacteria or fungi or cross-contamination of reagents may lead to wrong results.

#### Second, liquid sample protein extraction

1. Add 100μL reagent A to 1mL of liquid sample to be extracted and mix thoroughly.
2. Leave in ice bath or 4°C refrigerator for more than 30min.

3. Centrifuge at 4°C and above 15000×g for 15min.
4. Remove supernatant carefully and discard, leaving precipitation.
5. Dry the centrifuge tube by turning it upside down on absorbent paper.
6. Add 200μL reagent B to the centrifuge tube.
7. Centrifuge at 4°C and above 15000×g for 15min. Discard the supernatant and leave to precipitate.
8. Dry the centrifuge tube by turning it upside down on absorbent paper.
9. Dissolve the protein precipitate with 40-100μL reagent C and mix well.
10. Centrifuge at 4°C, 10000×g, for 10min.
11. Collect supernatant for downstream experiment.

**【Note】**

If there are too many insoluble precipitates in step 9, it can be directly mixed with Lodding buffer and boiled for SDS-PAGE electrophoresis detection; If other experiments are needed, low concentration DTT can be appropriately added to assist dissolution.

**Note:**

1. This kit is intended for scientific research only and is not intended for diagnosis or treatment.
2. All samples and utensils touched upon completion should be disposed of in accordance with the prescribed procedures.
3. It is best to use disposable suction heads, tubes, bottles or glassware, and reusable glassware must be washed and thoroughly cleaned before use. Remove residual cleaning agents.
4. All samples and contact utensils should be disposed of in accordance with the prescribed procedure after the experiment is completed.
5. Avoid skin or mucous membranes coming into contact with the reagent.