

Bacterial Protoplasmic Preparation Kit

Cat: EX2880

Size: 50T/100T

Validity: 2-8°C storage, valid for one year.

Kit Components:

Kit Components	50T	100T	Storage
Component A: Bacterial washing solution A	25mL	50mL	2-8°C
Component B: Protoplasmic preparation solution B	25mL	50mL	2-8°C
Component C: Protoplasmic preparation solution C	100μL	200μL	2-8°C
Component D: Protoplast preservation solution D	25mL	50mL	2-8°C

Note: Please use the reagent as soon as possible after unpacking!

Introduction:

The bacterial protoplasmic Preparation Kit provides a complete set of reagents for the preparation of protoplasts from a variety of Gram-positive bacterial samples. This kit provides a system for maintaining protoplasts that are separate and intact. Optimized reagent formulations and procedures allow rapid protoplast separation with minimal cross-contamination.

This kit is suitable for the preparation of protoplasts from a variety of Gram-positive bacterial samples. It is not suitable for Gram-negative bacterial samples.

The protoplast components extracted by this kit still retain their biochemical functions and are suitable for a variety of downstream analyses.

Self-prepared reagents and instruments:

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

Protocols:

First, notes for use:

1. Before the formal experiment, please select several samples to do pre-experiment, in order to optimize the experimental conditions and achieve the best experimental results.
2. Centrifuge the reagent in the screw cap microreagent tube briefly before opening the cap, and centrifuge the liquid on the cap and inside wall to the bottom of the tube to avoid reagent loss when opening the cap.
3. All reagents in the process of the experiment must be pre-cooled; All utensils must be pre-cooled in a -20°C refrigerator. The sample must be kept at a low temperature during the whole process.

Second, bacterial protoplasm preparation:

1. Extraction solution preparation: Every 500μL of cold reagent B, add 2μL of reagent C, mix and reserve.
2. Take a 50-100mg bacterial sample and wash it once with PBS.

3. Add 500 μ L washing solution A to the bacterial sediment and mix thoroughly.
4. Let it sit at room temperature for 15min.
5. Centrifuge at 3000 \times g for 10min, discard the supernatant, and collect the bacterial precipitation.
6. Add 500 μ L preparation solution B to the precipitation and mix thoroughly.
7. The suspension of the extract solution B sample was placed on the oscillator at 37 $^{\circ}$ C and oscillated for 1-4h.
8. Centrifuge at 2000 \times g for 5min and collect the precipitation, which is protoplast.
9. Wash the protoplasts once with PBS.
10. Add 500 μ L reagent D to the protoplast precipitate to re-suspend the protoplast and mix well.
11. Store the protoplast samples in the refrigerator at 2-8 $^{\circ}$ C for future use or directly for downstream experiments.

Notes:

1. This kit is intended for scientific research only and is not intended for diagnosis or treatment.
2. It is best to use disposable suction heads, tubes, bottles, or glassware, and reusable glassware must be washed and thoroughly removed of residual cleaners before use.
3. All samples and exposed glassware should be disposed of in accordance with the prescribed procedure after the experiment is completed.
4. Avoid skin or mucous membranes coming into contact with the reagent.
5. If the reagent accidentally comes into contact with skin or eyes, it should be rinsed with water immediately.