

Plant Protein Extraction Kit

Project No. P665757 (100 preps)

Storage condition: Protease Inhibitor Cocktail: -20°C, other components: room temperature.

Product content

individual parts making up a compound	P665757 100 preps
Plant Protein Extraction Reagent	100 ml
Protease Inhibitor Cocktail (100×)	1 ml

Product Introduction

This plant protein extraction kit can extract soluble plant proteins from fresh, frozen or dried plant tissues. It is suitable for protein extraction from a variety of plants and different parts of plants (e.g. roots, stems, leaves, flowers, seeds, etc.), with high extraction efficiency, high protein yield, high activity and fast speed. The extracted proteins can be used directly for protein electrophoresis analysis, immunoprecipitation, Western Blot, protein activity determination and protein purification. The extracted proteins can be used to determine the concentration of BCA protein quantification kit.

Caveat

1. This product contains 1 mM EDTA.
2. To prevent protein degradation, all operations are performed on ice as much as possible.
3. After using this product to extract protein, BCA method can be used for protein quantification.
4. In order to obtain the best results from the experiment, adjust the optimum amount to be used according to the experiment.

Operation process

1. Please take out the Plant Protein Extraction Reagent for pre-cooling before protein extraction.
2. Weigh the test plant tissue. Add 5 ml of Plant Protein Extraction Reagent to 1 g of tissue (add Protease Inhibitor Cocktail 1:99 before protein extraction).

Attention:

(1) Before homogenization, large pieces of plant tissues were cut into small pieces, and the mechanical homogenizer was used to homogenize for 10 s, with an interval of 10 s, and repeated three times to carry out lysis, and the suitable homogenization method was selected according to the different tissue samples.

(2) The amount of lysate used should be adjusted according to the different parts of the plant, and the amount of Plant Protein Extraction Reagent can be appropriately reduced if a concentrated protein extract is required.

3. Homogenize and incubate on ice for 20-30 minutes.
4. 4° C 13,400 × g, centrifugation for 20 min.
5. Collect soluble proteins in the supernatant for the next step of purification or downstream analysis.