Nuclear / Nuclear / Cytoplasmic Fractionation Kit

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1kit [N1208]

This product is a kit for convenient fractionation of nuclear and cytoplasmic proteins from cultured mammalian cells. By using the three reagents included, the quick collection of each fraction can be achieved. The extracted proteins can be used directly in downstream applications such as Western Blotting.

Kit Components

- 1X Cytoplasmic Extraction Buffer for approx. 50 samples
- 20X Detergent Solution

for approx. 50 samples

1X Nuclear Extraction Buffer

for approx. 50 samples



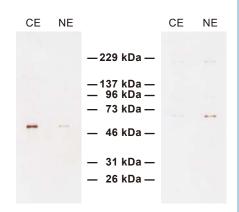
Application

[For Cytoplasmic Extraction]

- 1. Collect cells and wash cells twice with ice cold PBS. Use a cell scraper for adherent cells.
- 2. Resuspend the cells gently in cold 1X Cytoplasmic Extraction Buffer. Add 400 μ L of the buffer to 100 μ L of the cell volume (~ 1 x 10 7 cells).
- 3. Incubate on ice for 10 minutes.
- 4. Add 20X Detergent solution to the cell suspension and vortex vigorously for 10 seconds. Use 25 μL of 20X Detergent Solution per 500 μL of the solution from (3).
- 5. Centrifuge at 800 x g for 10 minutes at 4 °C.
- 6. Transfer the supernatant (cytoplasmic fraction) to a new tube for downstream experiments.

[For Nuclear Extraction]

- 7. Resuspend the pellet in cold 1X Nuclear Extraction Buffer. Add 100 μL of 1X Nuclear Extraction Buffer per 100 μL pellet.
- 8. Incubate the pellet solution on ice for 20 minutes, vortexing every 5 minutes.
- 9. Centrifuge at 15,000 x g for 10 minutes at 4 °C.
- 10. Transfer the supernatant (nuclear fraction) to a new tube for downstream experiments.



Example Western Blotting of a cytoplasmic fraction (CE) and nuclear fraction (NE) extracted with N1208, detected using α -Tubulin antibody (left) and Lamin B1 antibody (right). Excellent separation was achieved

Ordering and Customer Service

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