Total Protein Cell Lysis Buffer

Code	Description	Size
M329-10ML	Total Protein Cell Lysis Buffer	10 mL

General Information

VWR Life Science AMRESCO's Total Protein Cell Lysis Buffer is a non-ionic detergent lysis buffer optimized for the isolation of total proteins from adherent or non-adherent cells in culture. The Total Protein Cell Lysis Buffer enables efficient solubilization of the plasma and intracellular membranes, breaks weak intermolecular bonds, and solubilizes most of the commonly studied protein antigens. Total Protein Cell Lysis Buffer reduces protein denaturation, protein complex disruption and loss of enzymatic activity since it contains less detergent than a typical RIPA lysis buffer.

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Storage/Stability

Store cold (2 – 8°C).

Product Use Limitations

For research use only. Not for therapeutic or diagnostic use.

Required Materials Not Supplied

- PBS
- Protease Inhibitors

Protocol/Procedure

Notes:

- All procedures should be performed on ice or in a cold room with ice-cold reagents to reduce proteolysis, dephosphorylation and denaturation.
- Protease inhibitors or inhibitor cocktails should be added to the Total Protein Cell Lysis Buffer so that the final concentration is 1X.
- Protocol below is optimized for 1 x 10^6 cells.

Cell Collection

1. Transfer cells from tissue culture flask to an appropriate sized tube.
2. Centrifuge at 2,000 rpm for 5 minutes at 4°C.
3. Decant the media and re-suspend the pelleted cells in 10 mL ice cold PBS.
4. Centrifuge at 2,000 rpm for 5 minutes at 4°C.
5. Decant the PBS supernatant and re-suspend the pellet in 1 mL ice cold PBS. Transfer the re-suspended pellet to a microcentrifuge tube.
6. Centrifuge 1 minute at 2,000 rpm at 4°C.

Cell Lysis

1. Discard the supernatant and re-suspend the pellet in 20X the packed cell volume with Total Protein Cell Lysis Buffer containing protease inhibitors
2. Vortex vigorously for 10 seconds.
3. Incubate the cell suspension on ice with shaking for 30 minutes with periodic vortexing.
4. Vortex vigorously for 30 seconds.
5. Centrifuge at 14,000 x *g* for 20 minutes at 4°C.
6. Transfer the supernatant containing total cell protein into new microcentrifuge tube.
7. The total cell protein should be stored frozen at -20°C until needed.

Directions for Use

For Technical Support
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