

I-PER insect cell protein extraction reagent, Thermo Scientific Pierce

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An efficient, gentle reagent that provides maximum extraction of soluble proteins.

Thermo Scientific Pierce I-PER insect cell protein extraction reagent enables gentle extraction of soluble protein from baculovirus-infected insect cells grown in suspension or monolayer culture. I-PER reagent maintains functionality of extracted proteins and is directly compatible with downstream applications such as protein assays, Western blotting and 6x His-tagged protein purification and ion-exchange chromatography.

Catalogue No	Description	Quantity
PN89802	I-PER insect cell protein extraction reagent Consists of a proprietary non-ionic detergent, 130mM NaCl and a microbial growth inhibitor in 25mM Tris HCl buffer, pH7.5	250mL



Thermo Scientific I-PER reagent efficiently extracts recombinant proteins from infected Sf9 cells: human Cyclin B1, mouse STAT 6, and GFP. I-PER reagent extracts were prepared from infected Sf9 cells. Normalised amounts of total, insoluble and soluble protein were separated by sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) before Western blot analysis.

M-PER mammalian protein extraction reagent, Thermo Scientific Pierce

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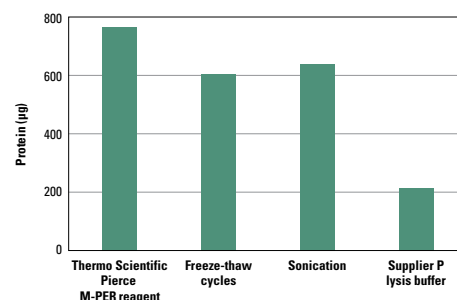
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Designed to provide highly efficient total protein extraction from cultured mammalian cells.

- Gentle - mild detergent lysis, yielding extracts that are immediately compatible with Coomassie® (Bradford) and BCA protein assays or SDS-PAGE
- Amine-free and dialysable - formulation ensures compatibility with subsequent assay systems
- Non-denaturing - maintain luciferase, β -galactosidase, CAT and other reporter gene activities as well or better than other suppliers' products and freeze/thaw methods

Choose the complete cell lysis reagent with a detergent formulation that dissolves cell membranes at low concentrations, does not denature protein and is compatible with downstream assays. Lysis with M-PER reagent is so efficient that adherent cells do not need to be scraped from the culture dish, enabling easy lysis and analysis of cells grown in 24 well and 96 well plates.

Catalogue No	Description	Quantity
PN78503	M-PER mammalian protein extraction reagent	25mL
PN78501	M-PER mammalian protein extraction reagent	250mL
PN78505	M-PER mammalian protein extraction reagent	1L



Comparison of Thermo Scientific M-PER reagent with freeze/thaw cycles, sonication and supplier P lysis buffer. COS-7 cells grown in 100mm plates at full confluency were washed once with 10mL of PBS, scrapped with 1mL of PBS and centrifuged at 5,000rpm for 5min to collect the cells. The cell pellets were resuspended in 0.5mL of respective extraction reagents and subjected to total protein extraction. Supernatants were assayed for protein concentration by the Pierce BCA protein assay.

T-PER tissue protein extraction reagent, Thermo Scientific Pierce

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Developed for extraction of total protein from tissue samples.

- Simple procedure - homogenise tissue sample in 1:20 (w/v) of tissue to Thermo Scientific Pierce T-PER reagent, then centrifuge to pellet cell/tissue debris
- Mild and convenient - detergent is dialysable for quick and easy removal; can be used with additional components (e.g., protease inhibitors, salts, reducing agents, chelating agents, etc.)
- Compatible - the lysate is compatible with standard protein assays such as Thermo Scientific Pierce Coomassie Plus (Bradford) protein assay

This reagent utilises a proprietary detergent in 25mM bicine, 150mM sodium chloride (pH7.6) for tissue cell lysis. The cell lysate prepared with this reagent may be used for reporter assays (e.g., luciferase, β -galactosidase, chloramphenicol acetyl transferase), protein kinase assays (e.g., PKA, PKC, tyrosine kinase), immunoassays (e.g., Western blots, ELISAs, RIAs) and/or protein purifications.

Catalogue No	Description	Quantity
PN78510	T-PER tissue protein extraction reagent	50mL
PN89833	Lysozyme	5g
PN89835	DNase I	5,000 units