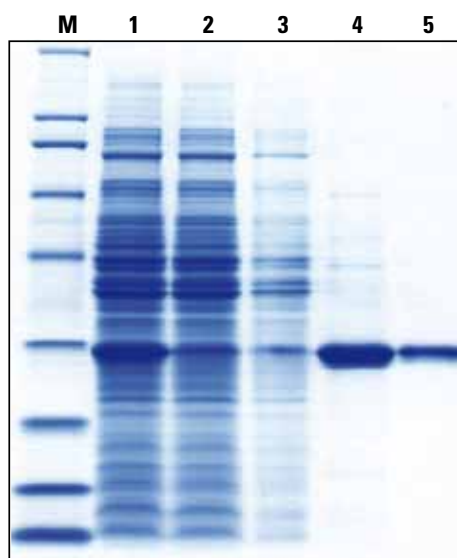


Protein Purification

Affinity purification - Group specific, His-tag



Purification of histidine-tagged green fluorescent protein using the Thermo Scientific Pierce B-PER fusion protein spin kit. Lane 1: *E. coli* extract obtained with B-PER reagent. Lane 2: Flow-through from binding step with affinity resin. Lane 3: Wash fraction collected from spin column. Lanes 4 to 5: Elution fractions containing purified histidine-tagged GFP. Lane M: MW marker.

B-PER 6xHis fusion protein purification kits, Thermo Scientific Pierce

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Extracts and purifies His-tag proteins from *E. coli* cells.

- Purity - yields histidine-tagged fusion protein free of cellular contamination
- Easy and efficient cell lysis - no sonication required; complete cell lysis achieved with B-PER Bacterial Protein Extraction Reagent
- Ready-to-use columns and reagents - microcentrifuge spin cups or pre-packed columns, nickel-chelate agarose, and prepared wash and elution buffers make set-up and execution very easy

The B-PER Bacterial Protein Extract Reagent gently and efficiently lyses *E. coli* cells to extract soluble proteins. The B-PER Lysate is loaded directly onto a column containing the nickel agarose beads, which bind to the His-tag. Following a quick wash step to remove nonbound components of the lysate, the purified His-tagged protein is eluted with an imidazole buffer. Yield and purity depend on the soluble expression level and nature of the recombinant protein.

Catalogue No	Description
PN78100	B-PER 6xHis fusion protein column purification kit Purify >10mg fusion protein from 250mL culture in less than 2 hr. Includes: B-PER extraction reagent, 165mL 6xHis wash buffer 1, 45mL 6xHis wash buffer 2, 60mL Elution buffer, 45mL Nickel chelated column, 5 x 1mL
PN78300	B-PER 6xHis fusion protein spin purification kit Purify >1mg fusion protein from 250mL of culture in 30 min. Includes: B-PER extraction reagent, 165mL 6xHis wash buffer, 40mL Elution buffer, 45mL Nickel chelated agarose, 8mL Spin columns and collection tubes, 16, 80

Y-PER 6xHis fusion protein column purification kit, Thermo Scientific Pierce

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Lyses and purifies His-tagged proteins from yeast.

The Y-PER 6xHis fusion protein column purification kit offers purification of His-tagged fusion proteins from *S. cerevisiae* and other yeast cells.

From 1g to 5g wet paste of cells containing overexpressed soluble His-tagged protein, the default procedure produces 3mL to 25mL of lysate and 1mg to 12mg of purified His-tagged protein.

The kit uses Y-PER* Yeast Protein Extract Reagent to gently and efficiently lyse yeast cells to extract soluble proteins. The Y-PER Lysate is loaded directly onto the nickel agarose column, which binds to the His tag. After washing to remove non-bound components of the lysate, the purified His-tagged protein is eluted with an imidazole buffer. Yield and purity depend on the soluble expression level and nature of the recombinant protein.

Catalogue No	Description
PN78994	Y-PER 6xHis fusion protein column purification kit. Includes: Y-PER yeast protein extraction reagent, 200mL Nickel chelated columns, 5 x 1mL Wash buffer 1, 60mL Wash buffer 2, 60mL Elution buffer, 45mL



HisPur cobalt resin, spin columns and Chromatography cartridges, Thermo Scientific Pierce

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Specific, fast and gentle purification of His-tagged proteins. Thermo Scientific Pierce HisPur cobalt resin is a tetradentate chelating resin charged with cobalt that binds His-tagged proteins with high specificity and releases them under lower imidazole concentrations than required with nickel resins.

- High purity - obtain pure protein without optimizing imidazole washing conditions
- Specificity - cobalt:chelate binding core binds fewer contaminants, resulting in lower background than nickel
- Low metal leaching - no metal contamination in eluted sample
- Versatility - purify proteins under native or denaturing conditions; compatible with cell lysis reagents and a variety of buffer additives
- Flexibility - available as bulk resin, predispensed columns compatible with both spin and gravity-flow formats and in chromatography cartridges