B-PER GST fusion protein column purification kit, Thermo Scientific Pierce

Thermo SCIENTIFIC

NEW PN

Extracts and purifies GST-tagged proteins from bacteria.

- Capacity - purify >10mg of overexpressed GST fusion protein from 250mL bacterial culture
- Purity - yields GST fusion protein free of cellular contamination
- Speed - progress from lysis to purified protein in less than two hours
- 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 - pre-packed columns (contain 1mL glutathione agarose), prepared wash buffers and easy to prepare glutathione solution for elution make set-up and execution very easy

The Thermo Scientific Pierce B-PER GST fusion protein column purification kit offers rapid purification of GST and GST-tagged fusion proteins from bacteria, yielding up to four times as much protein as other kits. The kit uses B-PER Bacterial Protein Extraction Reagent to gently and efficiently lyse *E. coli* cells to extract soluble proteins. The lysate is directly loaded onto the pre-packed glutathione agarose column. After washing to remove non-GST components of the sample, the purified GST or GST fusion protein is eluted with reduced glutathione.

Catalogue No	Description
PN78200	**B-PER GST fusion protein column purification kit.** Includes: B-PER bacterial protein extraction reagent, 165mL Immobilised glutathione columns (capacity: ~8 mg horse liver glutathione S-transferase/column), 5 x 1mL Wash buffer 1, 60mL Wash buffer 2, 85mL Glutathione, 5 x 184mg

SDS-PAGE analysis of the GST purification using Thermo Scientific Pierce B-PER GST fusion protein column purification kit. Fractions from each purification step were subjected to SDS-PAGE analysis using a gradient 4% to 20% polyacrylamide gel and stained with Thermo Scientific Pierce GelCode blue stain reagent. Lane 1: The crude lysate extracted from E. coli with B-PER reagent. Lane 2: The flow-through from the cruse lysate. Lane 3 to 4: Wash fractions of wash buffer. Lane 5: Wash fractions of wash buffer. Lane 6: GST eluted from the column with the elution buffer (50mM glutathione). Lane M: MW markers.

B-PER GST fusion protein spin purification kit, Thermo Scientific Pierce

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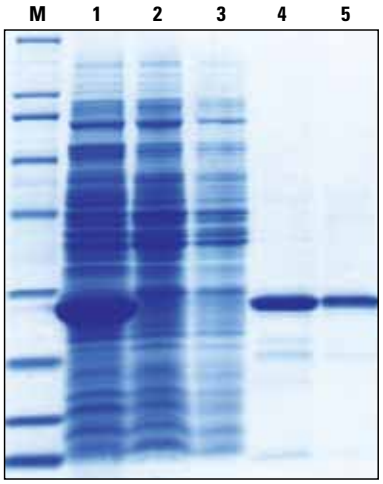
Extracts and purifies GST tagged proteins from bacteria.

- Purifies milligram quantities in 30min
- Purity - yields GST fusion protein free of cellular contamination
- Capacity - purify >1mg of overexpressed GST fusion protein from 250mL bacterial culture
- Easy and efficient cell lysis - no sonication required; complete cell lysis achieved with B-PER Bacterial Protein Extraction Reagent
- Ready-to-use components and reagents - microcentrifuge spin cups, glutathione agarose slurry, prepared wash buffer and easy-to-prepare glutathione solution for elution make set-up and execution very easy

The Thermo Scientific Pierce B-PER GST fusion protein spin purification kit offers rapid purification of GST and GST-tagged fusion proteins from bacteria. The kit uses B-PER Bacterial Protein Extraction Reagent to gently and efficiently lyse *E. coli* cells to extract soluble proteins. The lysate is directly loaded on to glutathione agarose slurry in a convenient microcentrifuge spin cup. After washing to remove non-GST components of the sample, the purified GST or GST fusion protein is eluted with reduced glutathione.

Catalogue No	Description
PN78400	**B-PER GST fusion protein spin purification kit.** Includes: B-PER bacterial protein extraction reagent, 165mL Immobilised glutathione agarose, 8mL Wash buffer, 85mL Glutathione (reduced), 16 x 15mg 16 x microfilter spin columns 80 x collection tubes



Purification of GST using the Thermo Scientific Pierce B-PER spin kit. Lane M: MW marker. Lane 1: Recombinant GST expressed in *E. coli* BL$_{21}$ was first extracted by B-PER reagent. After binding to affinity gel (Lane 2), the GST bound gel was transferred to spin columns and washed once with wash buffer to remove contamination (Lane 3). The recombinant protein was eluted four times to achieve complete elution. Lanes 4 to 5 are eluent 2 and eluent 3 of GST.