CREATIVE BIOMART®
Chromatography

His MultiTrap HP

Product Information

Cat#No#	Hi-399C

Product Overview

His MultiTrap HP are prepacked disposable 96-well plates for reproducible high throughput parallel purification of histidine-tagged recombinant proteins by Immobilized Metal ion Affinity Chromatography (IMAC).

Description

His MultiTrap HP are prepacked, 96-well filter plates for screening and small-scale, high-throughput parallel purification of histidine-tagged recombinant proteins by immobilized metal ion affinity chromatography (IMAC). Consistent well-to-well and plate-to-plate performance ensures high reproducibility. The ability to load unclarified lysates on His MultiTrap plates simplifies the workflow and saves time. The standardized 96-well plate format gives great flexibility, both when working with automated robotic systems and when manually using centrifugation or vacuum. Using the filter plates, 96 samples with up to 1 mg of histidine-tagged protein/well can be purified in 60 min.

Characteristic

Highly reproducible well-to-well and plate-to-plate results.
Less sample pretreatment needed — load unclarified sample directly, increase reproducibility in results, and save time.
Easy and predictable scale-up to HisTrap FF, HisPrep FF 16/10, or HisTrap HP prepacked columns.
High chemical stability and high binding capacity — purifies up to 1 mg of histidine-tagged protein per well.
Prepacked with Ni Sepharose media, which have low nickel leakage and are compatible with a wide range of additives used in protein purification.

Applications

High reproducibility of histidine-tagged protein purification from unclarified and clarified lysates using His MultiTrap.
Solubility effects of detergents in buffers during purification of membrane proteins.

Sample preparation

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His MultiTrap HP

His MultiTrap HP purify histidine-tagged proteins directly from unclarified cell lysates. No centrifugation or filtration is needed prior to loading the wells. Samples are prepared by straightforward chemical and/or mechanical lysis. If the sample is viscous, simply extend the mechanical treatment. A general sample preparation protocol involves: (1) suspending the cells/cell paste, (2) enzymatic lysis using lysozyme, DNAse I, and adding MgCl2 etc., (3) mechanical lysis by sonication, homogenization, or freeze/thaw, (4) adjusting pH, and (5) applying unclarified lysate directly to the wells.

Metal ion capacity
~15 μmol Ni^{2+} /mL medium
Average particle size
34 μm
Dynamic binding capacity
Up to 1 mg histidine-tagged protein/well
Chemical stability
0.01 M HCl, 0.1 M NaOH (tested for one week at 40°C); 1 M NaOH or 70% acetic acid (tested for 12 h) 2% SDS (tested for 1 h); 30% 2-propanol (tested for 30 min).
Chemical compatibility
Stable in all commonly used buffers, reducing agents, denaturants, and detergents.
pH working range
2–14
CIP stability
3–12
Storage
4 - 30°C, 20% Ethanol
Pack size
4 × 96-well filter plates

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Column volume
800 µL

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