His MultiTrap FF

Product Information

Cat#No#	Hi-398C

Product Overview

His MultiTrap FF is 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 FF is prepacked 96-well filter plates for high-throughput screening of histidine-tagged* proteins from clarified or unclarified lysates. Purification is performed by immobilized metal ion affinity chromatography (IMAC). The plates are prepacked with Ni Sepharose 6 Fast Flow (His MultiTrap FF) or Ni Sepharose High Performance (His MultiTrap HP). A protocol for His MultiTrap is available in His Buffer Kit. The kit is available with ready-made buffer solutions, for increased convenience and for fast buffer preparation.

Characteristic

Prepacked multiwell filter plates for high reproducibility in expression screening and small-scale purification of histidine-tagged* proteins.
Increased convenience and consistency with prepacked 96-well plates.
No filtration needed - load unclarified sample directly, increase reproducibility, and save time.
Use His MultiTrap 96-well filter plates with robotic systems or manually with centrifugation or vacuum.
Easy scale-up to HisTrap FF, HisPrep FF 16/10 or HisTrap HP prepacked columns. High chemical stability and high binding capacity up to 1 mg of histidine-tagged protein per well.

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

His MultiTrap FF 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

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Chromatography

His MultiTrap FF

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
90 μm
Dynamic binding capacity
Up to 0.8 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°C to 30°C
Pack size
4 × 96-well filter plates
Column volume
800 μL

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