

HiTrap TALON crude

Product Information

Cat#No# Hi-101P

Product Overview

HiTrap TALON crude 1 mL and 5 mL columns allow for rapid separations and easy scale-up with a minimum of sample preparation and equipment.

Description

TALON Superflow is a cobalt-based IMAC resin offering different selectivity compared to nickel-charged resins. TALON Superflow and prepacked HiTrap TALON crude columns allow protein purification under native or denaturing conditions and can be used with prokaryotic and eukaryotic expression systems.

Characteristic

Columns prepacked with cobalt-based chromatography resins designed for purification of histidine-tagged recombinant proteins by immobilized metal affinity chromatography (IMAC).

Suitable for IMAC purification of histidine-tagged proteins when Ni²⁺ is not the optimal choice of metal ion. Compatible with commonly used IMAC reagents and appropriate for purifying proteins under native or denaturing conditions.

Prepacked HiTrap TALON crude columns save time by allowing the application of unclarified samples directly, minimizing labor and degradation of proteins.

HiTrap TALON crude columns allow repeated runs without stripping, cleaning, or Co²⁺ recharging.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Matrix

Cross-linked agarose, 6%

Particle Size

60-160 µm

Dynamic binding capacity

up to 20 mg histidine-tagged protein/ ml medium.

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Recommended flow rate

1 ml/min - 4 ml/min

Chemical compatibility

Stable in all commonly used buffers, denaturants and detergents.

pH working range

2 to 14

CIP stability

3 to 12

Storage

4°C to 8°C

Regeneration

Purification of histidine-tagged proteins using imidazole gradients will cause TALON Superflow to take on a dark purplish color. Washing the medium with 5 to 10 bed/column volumes of 20 mM MES Buffer (pH 5.0) will restore the normal pink color and bring the absorbance at 280 nm back to the original baseline level. After equilibrating with binding buffer, the medium/column is ready for reuse.

Pack size

5 × 1 mL

Maximum flow velocity

2000 cm/h

Dimensions

7 × 25 mm

Column volume

1 ml

Column i.d.

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7 mm

Column hardware pressure limit

5 bar (0.5 MPa)
