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InnoCyto Inc.

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Nickel resin

Catalog Number: 700301, 700302

Size: 10mL, 50mL

PRODUCT DETAILS

Application: His-tag protein purification

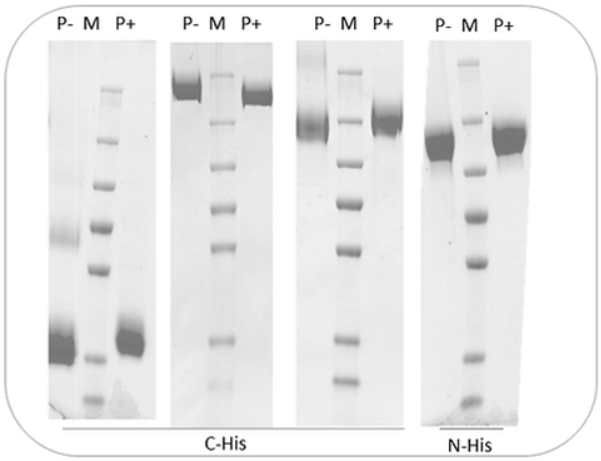
Product Description: Nickel charged cross-linked 6% agarose. The Nickel resin is supplied as 50% slurry in 20% Ethanol.

User Manual: Nickel Resin Application Guideline (PDF)

Storage and Handling: Store the vial at 4°C (DO NOT FREEZE). The unopened vial is stable for twelve months when stored at 4°C.

Recommended Usage: Nickel resin is suitable for purifying recombinant proteins with a His tag (minimum 6×His) at either the N- or C-terminus. In principle, it may also bind proteins with internal His tags, although this application has not been validated. The tested binding capacity is approximately 10–20 mg of His-tagged protein per mL of resin. When starting from culture supernatant, >95% purity can typically be achieved with a single-step purification using Nickel resin.

PRODUCT DATA



Recombinant proteins of various sizes, with either C-terminal or N-terminal His tags, were efficiently purified using Nickel resin and eluted with 400 mM imidazole in 20 mM Tris, 300 mM NaCl, pH 8.0. Eluted proteins were analyzed by SDS-PAGE under both non-reducing (P–) and reducing (P+) conditions and stained with BlinkBlue SDS-PAGE Staining Buffer for 30 minutes. The protein ladder (from top to bottom) corresponds to 185, 115, 80, 65, 50, 30, and 25 kDa, respectively.