

★ Storage

Store at 2-8°C. Do Not Freeze

Contents

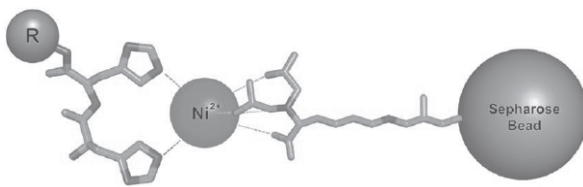
- Product Manual
- AffiPure Ni-NTA Agarose Bead, His-Tagged Protein Purification

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★ Introduction

AffiPure Ni-NTA Agarose Bead is an affinity chromatography matrix for purifying recombinant proteins carrying a His tag. Histidine residues in the His tag bind to the vacant positions in the coordination sphere of the immobilized nickel ions with high specificity and affinity. Cleared cell lysates are loaded onto the matrices. His-tagged proteins are bound, and other proteins pass through the matrix. After washing, His-tagged proteins are eluted in buffer under native or denaturing condition.

AffiPure Ni-NTA Agarose Bead has a binding capacity of ~50 mg/ml. In addition, it allows for purification of proteins under native or denaturing conditions. NTA cross-linked Agarose bead consists of NTA (nitrilotriacetic acid) ligated by stable ether linkages via a spacer arm. NTA is a tetravalent chelating agent, covalently coupled to cross-linked agarose beads, providing a higher specificity and lower ion leaching than IDA linked resins. NTA resins have also been shown to be more robust in the presence of higher concentrations of EDTA, but may require a higher imidazole concentration for protein elution.



Two neighbouring residues of a His-tag

Nitrilotriacetic acid (NTA) chelating resin

★ Specification

Description	Specification
Bead Geometry & Size	~ 50 - 150 um
Agarose %	6%
Ligand	Nitrilotriacetic Acid (NTA)
Binding/Loading Capacity	> 50 mg/ml gel
Antimicrobial Agent	20% Ethanol