Super Nickel NTA Affinity Resin

Datasheet

Super Nickel NTA Affinity Resin designed for affinity purification of polyhistidine tagged proteins. Nickel ions are carefully loaded onto a 7.5% cross-linked agarose matrix (medium particle diameter 40 µm) via a NTA coupled ligand to obtain a stable affinity matrix with the highest binding capacity for histidine residues (up to 70 mg/ml determined from *E.coli* cleared lysate). Other metal ions such as Co^{2+}, Zn^{2+}, Fe^{3+}, and Al^{3+} can also be used resulting in different affinities. If required, the Nickel ions can be removed from the agarose matrix using 5 wash steps with 100 mM EDTA, and the matrix recharged with a different metal ion.

Specification:

Specificity:	Polyhistidine tag
Matrix:	7.5% cross linked agarose
Coupled ligand:	Nitrilotriacetic acid (NTA)
Binding capacity:	70 mg/ml
Bead size:	32-60 µm (40 µm medium)
Flow rate:	0.25-1 ml/min (optimum), 6 ml/min (max)
Maximum pressure:	72 psi
Buffer compatibility:	Common aqueous buffers from pH 2-14
Cleaning buffer examples:	100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile
Shipping/delivery:	50% (v/v) resin suspension in 20% ethanol at ambient temperature
Storage:	Equilibration buffer (short-term) 20% ethanol at 2-8°C (long-term)

Ordering Information:

Product	Volume	Order Code
Super Nickel NTA Affinity Resin (1 ml)	1 ml	Super-NiNTA1
Super Nickel NTA Affinity Resin (10 ml)	10 ml	Super-NiNTA10
Super Nickel NTA Affinity Resin (25 ml)	25 ml	Super-NiNTA25
Super Nickel NTA Affinity Resin (100 ml)	100 ml	Super-NiNTA100

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