

Super Co-NTA Agarose Resin

#Cat: NB-45-00040-10 Size: 10ml

#Cat: NB-45-00040-25 Size: 25ml

#Cat: NB-45-00040-100 Size: 100ml

Super Co- NTA Agarose Resin designed for affinity purification of polyhistidine tagged proteins. Cobalt 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 10 mg/ml determined from E.coli cleared lysate). Other metal ions such as Ni²⁺, Zn²⁺, Fe³⁺, and Al³⁺ can also be used resulting in different affinities. If required, the cobalt 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:	30 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 Co- NTA Agarose Resin (10 ml)	10 ml	NB-45-00040-10
Super Co- NTA Agarose Resin (25 ml)	25 ml	NB-45-00040-25
Super Co- NTA Agarose Resin (100 ml)	100 ml	NB-45-00040-100