

## Super Cobalt NTA Affinity Resin **Datasheet**

Super Cobalt NTA Affinity 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 Ni<sup>2+</sup>, Zn<sup>2+</sup>, Fe<sup>3+</sup>, and Al<sup>3+</sup> 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

7.5% cross linked agarose Matrix: 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 Cobalt NTA Affinity Resin (1 ml)	1 ml	Super-CoNTA1
Super Cobalt NTA Affinity Resin (10 ml)	10 ml	Super-CoNTA10
Super Cobalt NTA Affinity Resin (25 ml)	25 ml	Super-CoNTA25
Super Cobalt NTA Affinity Resin (100 ml)	100 ml	Super-CoNTA100

## **Protein Ark Limited**

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