



Ni²⁺-IDA Metal Chelate Agarose Resin Datasheet

Ni²⁺-IDA Metal Chelate Agarose Resin designed for affinity purification of polyhistidine tagged proteins. Nickel ions are carefully loaded onto an agarose matrix via an iminodiacetic acid (IDA) coupled ligand to obtain a stable affinity matrix with a high binding capacity for histidine residues (up to 10 mg/ml determined from *E.coli* cleared lysate). Other metal ions such as Co²⁺, Cu²⁺, and Zn²⁺ 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:	Agarose
Coupled ligand:	Iminodiacetic acid (IDA)
Binding capacity:	10 mg/ml
Bead size:	45-165 µm
Flow rate:	0.25-2 ml/min
Maximum pressure:	42 psi
Buffer compatibility:	Common aqueous buffers from pH 2-12
Cleaning buffer examples:	30% ethanol, 1 M NaOH, 0.01 M HCl, 8 M urea, 6 M guanidinium hydrochloride
Shipping/delivery:	50% (v/v) resin suspension in 20% Ethanol at ambient temperature
Storage:	Equilibration buffer at 2-8°C (short-term) 20% ethanol at 2-8°C (long-term)

Ordering Information:

Product	Volume	Order Code
Ni ²⁺ -IDA Metal Chelate Agarose Resin (25 ml)	25 ml	PC-MC25
Ni ²⁺ -IDA Metal Chelate Agarose Resin (100 ml)	100 ml	PC-MC100

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