

Ni-IDA Agarose

Cat. No. Ni-IDA-001A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	High-Affinity Ni-IDA Resin is an effective way for purification of recombinant proteins fused with a 6×Histidine tag. The product consists of the tridentate chelating agent, iminodiacetic acid (IDA), covalently coupled to 4% cross-linked agarose beads.
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Characteristics	An IDA ligand is coupled to the agarose matrix and carefully loaded with nickel ions to obtain an affinity matrix with highest binding capacity for histidine residues. The metal ion capacity is >25 µeqv Ni ²⁺ /mL. Other possible metal ions are Co ²⁺ , Zn ²⁺ , Fe ³⁺ , and Al ³⁺ , 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 can be recharged with a different metal ion.
Form	Every 20 ml Ni-IDA Resin contains 50% slurry.
Size	20 mL
Matrix	Highly cross-linked Agarose
Ligand	Iminodiacetic acid (IDA)
Dynamic binding capacity	>10 mg 6xhis-tagged protein/ml(CV)
Recommended column height	5-20cm

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Chemical stability	Ni-IDA Agarose is very stable and can resist the following conditions in most situations: pH 2-14, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile.
pH working range	3-13
pH CIP range	2-14
Temperature Stability	2-40 °C