

Ni-NTA Agarose

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

SPECIFICATION

Product Overview	Ni-NTA is designed for high quality purification of 6xhis-tagged recombinant proteins from bacteria, insect and mammalian cells. Ni-NTA agarose beads are widely used for protein purification due to its high affinity and selectivity for recombinant fusion proteins that are tagged with six tandem histidine residues.
Cat.no	Ni-NTA-001A
Characteristics	NTA binds Ni ²⁺ ions by four coordination sites. The Ni-NTA Agarose exhibits high affinity and selectivity for 6xhis-tagged recombinant fusion proteins, which can be purified under native, denaturing, or hybrid conditions using the Ni-NTA Agarose. Proteins bound to the resin are eluted with low pH buffer or by competition with imidazole or histidine.
Form	It is provided as a 50% slurry in 30% ethanol.
Size	10 mL, 25 mL, 100 mL
Matrix	4% cross-linked agarose
Average particle size	45-165 µm
Ligand	Nitrilotriacetic acid (NTA)
Dynamic binding capacity	5-10 mg of protein per ml of resin

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Recommended flow rate	30 ml/h
Recommended column height	5-20cm
Chemical stability	Stable to all solutions commonly used in gel filtration including reducing agents
Physical stability	Ni-NTA resin is guaranteed stable for 6 months when properly stored.
pH working range	3-13
pH CIP range	2-14
Temperature Stability	4-40 °C
Warning	Avoid using protease inhibitors or other additives that contain chelators, such as EDTA, or strong reducing agents, such as DTT, which will disrupt the function of nickel resin.

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