GENPure 100 Ni-NTA Agarose

NB

Product	Catalog No.	Package size
GENPure 100 Ni-NTA Agarose (10 mL)	NB-40-00001-10	20 mL 50% suspension
GENPure 100 Ni-NTA Agarose (50 mL)	NB-40-00001-50	100 mL 50% suspension
GENPure 100 Ni-NTA Agarose (250 mL)	NB-40-00001-250	500 mL 50% suspension
GENPure 100 Ni-NTA Agarose (500 ml)	NB-40-00001-500	1000 ml 50% suspension

Product Description

GENPure 100 Ni-NTA Agarose was developed for the affinity purification of proteins carrying a polyhistidine tag. This affinity chromatography matrix is based on 6% cross-linked agarose. The material is highly porous to allow for optimal protein interaction, with a size exclusion limit for globular proteins of 4 x 106 Da.

The novel GENPure 100 Agarose has excellent properties in batch and column purification, including purification processes under low pressure (FPLC®). At 15 cm bed height, maximum flow rate is ≥1000 cm/h, and maximum pressure ≥300 kPa. GENPure 100 agarose beads have a particle diameter of 50- 150 µm.

An NTA 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 15 µeqv Ni^{2+}/mL.

GENPure 100 Ni-NTA Agarose is delivered as a 50% (v/v) suspension so that 2 mL of suspension yield a 1 ml bed volume. The suspension contains 20% ethanol to prevent microbial growth.

Protein Binding Capacity

The protein binding capacity is up to 80 mg/mL, as determined by purification of 6xHis-tagged GFP protein from E.coli cleared lysates, and quantified via spectrophotometry. Proteins are eluted with high purity.

Compatibility

GENPure 100 Ni-NTA Agarose is very stable and can resist the following conditions in most situations: pH 3-13, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile, 10 mM DTT, 1 mM EDTA, 1 M NaOH.

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Shipping & Storage

Shipment Temperature	Ambient temperature
Short-term Storage	In neutral buffer
Long-term Storage	In neutral buffer with 20% ethanol at 4 °C

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