

PureCube INDIGO Ni-MagBeads

Product	Catalog No.	Package size
PureCube INDIGO Ni-MagBeads (1 mL)	75201	1 x 1 mL
PureCube INDIGO Ni-MagBeads (5 mL)	75205	1 x 5 mL
PureCube INDIGO Ni-MagBeads (25 mL)	75225	1 x 25 mL
PureCube INDIGO Ni-MagBeads (4 x 25 mL)	75290	4 x 25 mL

Product Description

PureCube INDIGO Ni-MagBeads were developed for the affinity purification of proteins carrying a polyhistidine tag. The affinity matrix is based on spherical magnetic agarose beads, consisting of 6% cross-linked agarose. The material is highly porous to allow optimal protein interaction. Cross-linked agarose is also physically very stable, making it suitable for purification processes without deformation or destruction. Our magnetic beads are very homogeneous in size with a medium particle diameter of 30 µm, yielding a high degree of reproducibility between individual purification runs.

A polychelator 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. Purification can be performed using up to 20 mM EDTA and 20 mM DTT with no loss in performance. The metal ion capacity is >75 µeqv Ni²⁺/mL.

PureCube INDIGO Ni-MagBeads are delivered as a 25% suspension. Therefore, 1 mL suspension will yield a 250 µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

Protein Binding Capacity

The protein binding capacity is up to 80 mg protein per mL of settled beads, as determined by purification of 6xHis-tagged GFP protein from *E.coli* cleared lysates, and quantified via spectrophotometry.

Compatibility

PureCube 100 INDIGO Ni-MagBeads are very stable and can resist the following conditions in most situations: buffers at pH 4-9, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile, 20 mM DTT, 20 mM EDTA.

Note: PureCube 100 INDIGO Ni-MagBeads are not stable at pH >9.0 and cannot be regenerated by alkaline solutions, such as sodium hydroxide.

Shipping & Storage

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

Additional Information

For protein purification protocols, please visit our webpage at: www.cube-biotech.com/protocols. For purification of his-tagged proteins with gravity flow columns and low pressure chromatography, we recommend using PureCube 100 INDIGO Ni-Agarose.

For affinity purification of GST-tagged, rho-tagged or strep[®]-tagged proteins, Cube Biotech offers dedicated agarose resins, magnetic beads and prepacked cartridges. Also available are a range of ultrapure detergents and buffers for extraction and purification of proteins. See www.cube-biotech.com/products for details.

Disclaimer: Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

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Proteins are our passion.