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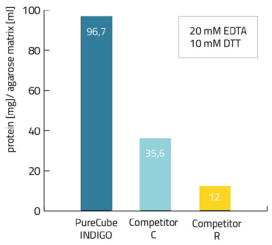
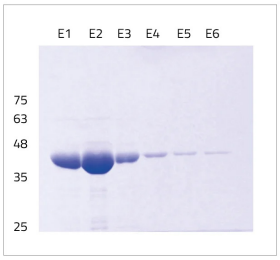
PureCube Ni-INDIGO MagBeads

Product	Catalog No.	Package size
PureCube Ni-INDIGO MagBeads (1 ml)	75201	1x 1 ml slurrly (250 µl MagBeads)
PureCube Ni-INDIGO MagBeads (5 ml)	75205	1x 5 ml slurrly (1.25 ml MagBeads)
PureCube Ni-INDIGO MagBeads (25 ml)	75225	1x 25 ml slurrly (6.25 ml MagBeads)
PureCube Ni-INDIGO MagBeads (4 x 25 ml)	75290	5x 25 ml slurrly (6.25 ml MagBeads)



PureCube 100 INDIGO + 20 mM EDTA



Product Description

PureCube Ni-INDIGO 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 Ni-INDIGO 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.

Product Description

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 Ni-INDIGO MagBeads are 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.

Technical Details

Bead Ligand	Ni-INDIGO (INDIGO ligand + nickel ion)
Bead size	30 µm
Filling quantity	25% suspension. (e.g. 10 ml will be 2.5 ml pure beads +7.5 ml storage buffer)
pH Stability	2-14
Binding capacity	80 mg protein / ml pure resin (Tested with eGFP)
Chelator stability	Stable in buffer containing 10 mM DTT and 1 mM EDTA

Shipping & Storage

Shipping 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 the protocols and other related information about this product visist our homepage at: https://cube-biotech.com/ , and enter the catalogue number in the search bar above.

For purification of His-tagged proteins from dilute solutions, we recommend using PureCube Ni-INDIGO MagBeads. For affinity purification of GST-tagged, Rho1d4-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 https://cube-biotech.com/products/protein-purification-products/ for details.

Disclaimer

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