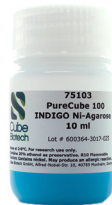
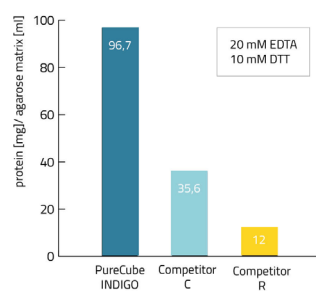


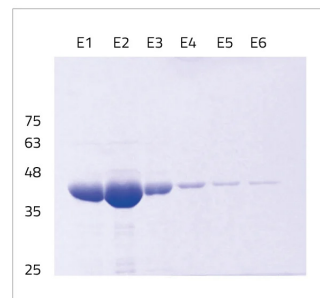
## PureCube 100 Ni-INDIGO Agarose



Product	Catalog No.	Package size
PureCube 100 INDIGO Ni-Agarose (10 ml)	75103	10 ml
PureCube 100 INDIGO Ni-Agarose (50 ml)	75105	50 ml
PureCube 100 INDIGO Ni-Agarose (250 ml)	75110	250 ml



PureCube 100 INDIGO + 20 mM EDTA



### Product Description

PureCube 100 INDIGO Ni-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  $4 \times 10^6$  Da. The novel PureCube 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  $\geq 1000$  cm/h, and maximum pressure  $\geq 300$  kPa. PureCube 100 agarose beads have a particle diameter of 50-150  $\mu\text{m}$ .

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  $>75$   $\mu\text{eqv Ni}^{2+}/\text{ml}$ .

PureCube 100 INDIGO Ni-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 100 mg/ml, as determined by purification of 6xHis-tagged GFP protein from E.coli cleared lysates, and quantified via spectrophotometry

### Compatibility

PureCube 100 INDIGO Ni-Agarose is very stable and can resist the following conditions in most situations: buffers at pH 4-13, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile, 20 mM DTT, 20 mM EDTA.

**Technical Details**

Bead Ligand	Ni-INDIGO (INDIGO ligand+ nickel ion)
Bead size	100 µm
Filling quantity	50% suspension. (e.g. 10 ml slurry will be 10 ml pure beads +10 ml storage buffer)
Binding capacity	100 mg protein / ml pure resin (Tested with eGFP)
Chelator stability	Stable in buffer containing 20 mM DTT and 20 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 visit 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-NTA 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**

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

Trademarks: FPLC® is a trademark of GE Healthcare.