

## PureCube 100 INDIGO Ni-Agarose

Product	Catalog No.	Package size
PureCube 100 INDIGO Ni-Agarose (10 mL)	75103	20 mL 50% suspension
PureCube 100 INDIGO Ni-Agarose (50 mL)	75105	100 mL 50% suspension
PureCube 100 INDIGO Ni-Agarose (250 mL)	75110	500 mL 50% suspension
PureCube 100 INDIGO Ni-Agarose (500 mL)	75112	1000 mL 50% suspension

### 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  $>75 \mu\text{eq Ni}^{2+}/\text{mL}$ .

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 80 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 4-9, 100% methanol, 100% ethanol, 8 M urea, 6 M guanidinium hydrochloride, 30% (v/v) acetonitrile, 20 mM DTT, 20 mM EDTA.

**Note: New PureCube 100 INDIGO Ni-Agarose is also stable at pH >9.0 and can be regenerated by alkaline solutions, such as sodium hydroxide.**

### Shipping & Storage

Shipment Temperature	Ambient temperature
Short-term Storage	In neutral buffer
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](http://www.cube-biotech.com/protocols). For purification of his-tagged proteins from dilute solutions, we recommend using PureCube INDIGO Ni-MagBeads.

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](http://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.**