

## PureCube SP Agarose

Product	Catalog No.	Package size
PureCube SP Agarose (50 mL)	38205	100 mL 50% suspension
PureCube SP Agarose (250 mL)	38210	500 mL 50% suspension
PureCube SP Agarose (500 mL)	38212	1000 mL 50% suspension

### Product Description

PureCube SP Agarose has been synthesized for the protein purification using ion exchange chromatography. Sulfonic acid, or SP, is a strong cation exchanger ligand. Binding of proteins to ion exchange columns is usually done under low salt conditions, and elution with an increasing salt gradient.

This affinity chromatography matrix is based on BioWorks Workbeads, consisting of 7% cross-linked agarose. The material is highly porous to allow for optimal protein interaction. Cross-linked agarose is also physically very stable, making it suitable for purification processes under low pressure with flow rates up to 6 mL/min (optimal 0.5 – 2 mL/min). Our agarose is very homogeneous in size with a medium particle diameter of 40 µm, yielding a high degree of reproducibility between individual purification runs.

A sulfonic acid group is covalently coupled to PureCube Agarose. The SP group density is higher than 180 µmol/ml, and provides a binding capacity for the test protein IgG of 70 mg/ml. PureCube SP Agarose is delivered as a 50% suspension. Therefore, 1 mL suspension will yield a 500 µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

PureCube SP Agarose is stable at a pH range of 2-13, making it easy to develop cleaning-in-place (CIP) procedures.

### Shipping & Storage

Shipment Temperature	Ambient temperature
Short-term Storage	In neutral buffer at 4 °C
Long-term Storage	20 mM sodium acetate, 20% ethanol, pH 6.5 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 hydrophobic interaction chromatography, and for affinity purification of His-tagged, GST-tagged, rho-tagged or strep<sup>®</sup>-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.