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PureCube Glutathione Agarose

Product	Catalog No.	Package size
PureCube Glutathione Agarose (10 mL)	**32103**	**20 mL 50% suspension**
PureCube Glutathione Agarose (50 mL)	**32105**	**100 mL 50% suspension**
PureCube Glutathione Agarose (250 mL)	**32110**	**500 mL 50% suspension**
PureCube Glutathione Agarose (500 mL)	**32112**	**1000 mL 50% suspension**

Product Description

PureCube Glutathione Agarose was developed for the affinity purification of glutathione-S-transferase (GST) fusion proteins. This affinity chromatography matrix is based on BioWorks Workbeads, consisting of 7.5% 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 0.25 – 1 mL/min). Our agarose resin is very homogeneous in size with a medium particle diameter of 40 µm, yielding a high degree of reproducibility between individual purification runs.

Glutathione has been coupled to the agarose to obtain an affinity matrix with highest binding capacity for GST fusion proteins. PureCube Glutathione Agarose can be used for batch purification, as well for low pressure column purification, and is compatible with all prokaryotic and eukaryotic expression systems. Because the purification method depends on correctly folded GST protein, only native conditions can be used.

PureCube Glutathione Agarose is delivered as a 50% suspension. Therefore, 2 mL suspension will 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 10 mg/mL resin, as determined by purification of glutathione-S-transferase from *E.coli* cleared lysates, and quantified via spectrophotometry.

Compatibility

For cleaning purposes, PureCube Glutathione Agarose is very stable and can resist the following conditions in most situations:
All commonly used aqueous buffers, from pH 3 – 12, e.g. 1 M sodium acetate, pH 4.0, or 6 M guanidine-hydrochloride, organic solvents (e.g., 70% (v/v) ethanol), 1% (w/v) SDS, 0.1 M NaOH, 0.1 M HCl.

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 GST fusion proteins from dilute solutions, we recommend using PureCube Glutathione MagBeads. For affinity purification of His-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.