

# Glutathione MagBeads

for affinity purification of glutathione-s-transferase (GST) fusion proteins

Product	Cat#	Package size
Glutathione MagBeads - 1mL of a 25% suspension in 20% ethanol	S5392.0001	1mL
Glutathione MagBeads - 5mL of a 25% suspension in 20% ethanol	S5392.0005	5mL
Glutathione MagBeads - 25mL of a 25% suspension in 20% ethanol	S5392.0025	25mL

## Product Description

Glutathione MagBeads are developed for the affinity purification of glutathione-S-transferase (GST) fusion proteins. The affinity matrix is based on spherical magnetic cross-linked agarose (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 30µm, yielding a high degree of reproducibility between individual purification runs.

Glutathione is coupled to the magnetic agarose beads to obtain an affinity matrix with highest binding capacity for GST fusion proteins. Because the purification method depends on correctly folded GST protein, only native conditions can be used.

Glutathione MagBeads are delivered as a 25% suspension. Therefore, 1mL suspension will yield a 250µL bed volume. The suspension contains 20% ethanol to prevent microbial growth.

## Protein Binding Capacity

The protein binding capacity is up to 10mg/mL settled beads, as determined by purification of glutathione-S-transferase (GST) from *E.coli* cleared lysates, and quantified via spectrophotometry.

## Compatibility

Genaxxon Glutathione MagBeads are stable in most commonly used aqueous buffers with a pH of 3-12 (e.g. 1M sodium acetate, pH4.0, or 6M guanidinium hydrochloride), organic solvents (e.g. 70% (v/v) ethanol), and 1% (w/v) SDS for 1h at room temperature.

## Specifications

Usage:	Specific binding and purification of GST-tagged proteins
Specificity:	Affinity to GST (glutathione-S-transferase)-tagged proteins
Particle size:	30µm diameter
pH-stability:	3.0-12.0 in aqueous solutions
Bead ligand:	L-Glutathione (reduced)
Formulation:	unbuffered suspension in 20% ethanol
Binding* capacity:	Up to 20mg/mL
Antimicrobial agent:	20% ethanol
Stabilities:	1M sodium acetate, pH4.0 6M guanidinium hydrochloride organic solvents (e.g., 70% (v/v) ethanol) 1% (w/v) SDS for 1h at room temperature 0.1M NaOH 0.1M HCl
Storage:	+2°C to +8°C, do not freeze!

\*As determined by purification of glutathione-S-transferase (GST) from *E.coli* cleared lysates and quantified via spectrophotometry.

## Shipping and storage

Shipment Temperature	ambient
Short-term storage	In neutral buffer at +2°C to +8°C
Long-term storage	In neutral buffer with 20% ethanol at +2°C to +8°C

## Additional Information

For protein purification protocols, please visit our webpage at: [www.genaxxon.com](http://www.genaxxon.com). For purification of GST fusion proteins with gravity flow columns and low pressure chromatography, we recommend using Glutathione Agarose. For affinity purification of His-tagged, rho-tagged or strep®-tagged proteins, Genaxxon 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.

## Important Information

Genaxxon MagBeads are developed, designed and sold for research purposes only. It is not to be used for human, diagnostic or drug purposes or to be administered to humans unless expressly cleared for that purpose by the Food and Drug Administration in the USA or the appropriate regulatory authorities in the country of use. All due care and attention should be exercised in the handling of many of the materials described in this manual.

## 8. Warranty

Genaxxon guarantees only for the described properties of the MagBeads over a period of 2 years (for Certificate of Analysis Date) if this product is used according to the information given in this publication. However, if you are not satisfied with this product, please contact Genaxxon bioscience GmbH using given contact form or one of its authorized distributors.