

**TECHNICAL DATA SHEET**

## Agarose Beads, glutathione functional

Catalog Numbers: AR-GST-1

### Description:

Nanocs' **Glutathione functionalized agarose beads** are intended for use in affinity purification of glutathione-S-transferase (GST) and GST fusion proteins.

Fusion proteins expressed from pGEX vectors contain a Glutathione S-transferase (GST) moiety and can therefore be purified to by glutathione bead based affinity chromatography. Because the affinity of GST for its substrate is in the submillimolar range, immobilization of glutathione on an agarose matrix makes a highly efficient affinity chromatography resin.

**Glutathione conjugated agarose beads** allow one-step purification and permit rapid, mild and highly selective purifications of proteins containing glutathione binding sequences. Bound GST-fusion proteins are easily displaced from the resin by elution with buffers containing reduced glutathione.

### Product Specifications:

- **Bead Matrix:** 4% cross-linked agarose bead.
- **Bead Size:** 50~150 microns.
- **Ligand:** **Reduced glutathione.**
- **Binding capacity:** >10 mg GST /mL. (see notes)
- **Storage Solution:** De-ionized water containing 30% isopropanol.

### Handling and Use:

Check standard GST protein purification procedures for binding and elution protocol. All materials should be handled with professional manner.

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### Storage Conditions:

**Glutathione coated agarose beads** should be stored at 4-8 °C for best use. Do not freeze.

### Notes:

*Recommended pH:* Working: 3-10.

*Temperature Stability:* 4-40 °C.

*Binding capacity may vary for each GST protein.*

**This product is for research use only and is not intended for use in humans or for diagnostic use.**

### To Order:

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