

GLUTATHIONE AGAROSE BEADS GENERAL DESCRIPTION

Purification of proteins is a vital part of research. Impure extracts generally contain a wide range of proteins with diverse biological functions and different chemistry, which need to be separated.

Fusion proteins expressed from pGEX vectors contain a Glutathione S-transferase (GST) moiety and can therefore be purified to near homogeneity by affinity chromatography on glutathione (γ -glutamylcysteinylglycine) as a substrate to inactivate toxic small molecules via formation of mercapturic acid. 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 has been covalently linked for use in affinity purification of glutathione-S-transferase (GST) and GST fusion proteins. This product provides a one step purification method and permits 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.

ABT offers the Glutathione beads with an agarose percentage type (4% Agarose).

The product range covers 2 different formats depending on the application type.

FORMAT	PRODUCT	BINDING CAPACITY	APPLICATION
Bulk Resins (10, 100 ml)	GLUTATHIONE Agarose Resin	> 8mg recombinant GST/ml gel	Batch Gravity MPLC FPLC™
Cartridges (5 x 1 ml)	GLUTATHIONE Agarose Cartridges	~ 10 mg recombinant GST/cartridge	Peristaltic pump Syringe MPLC FPLC™ ÄKTA design™