

## Save money without making compromises!

# Protino® Glutathione Agarose 4B

### The cost-effective alternative for GST-tag purification

#### → *Converting is simple*

Equivalent to Glutathione Sepharose™ 4B, highest performance

Simply copy and paste your procedure

No optimization or protocol change

#### → *Highest flexibility*

For batch, gravity flow, and FPLC™

#### → *Universal use*

Suitable for small proteins, large protein complexes, proteins with low expression rates



**BIOKÉ**  
sharing knowledge

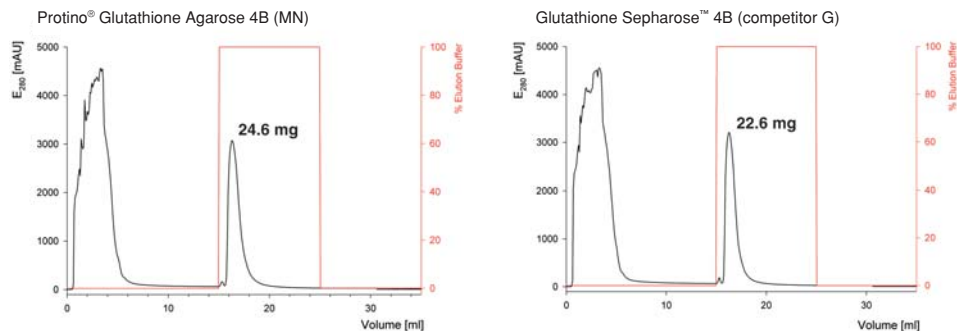
Plesmanlaan 1d  
2333 BZ Leiden  
The Netherlands  
T. +31 (0)71 568 10 00  
T. Belgium: 0800 71640  
F. +31 (0)71 568 10 10  
info@bioke.com  
www.bioke.com

#### Application data part I

**Protino® Glutathione Agarose 4B shows high performance for the GST-tagged protein DsRed.T3. Yield and purity are comparable to Glutathione Sepharose™ 4B.**

Data: Chromatograms FPLC™ application, system ÄKTApri™ plus, 1 ml bed volume, 5 ml sample volume, yield: 24.6 mg (MN), 22.6 mg (competitor G).

Coding sequence of DsRed.T3 was kindly provided by Dr. G. Jach, Phytowelt GmbH, Cologne, Germany



Additionally, the high reproducibility of purification results with MN and competitor G was shown by four repeated FPLC™ runs giving comparable yield and purity (data not shown, see [www.mn-net.com/protein](http://www.mn-net.com/protein)).

#### Customer testimonial

*"We have tested Protino® Glutathione Agarose 4B in comparison to Glutathione Sepharose™ 4B and found comparable results. Yield and purity of our isolated GST-fusion proteins as well as the performance were absolutely convincing and comparable to the market leader."*

**Karin Heine and Prof. Dr. Holger Barth, Institute of Pharmacology and Toxicology, University of Ulm Medical Center, Germany**

Achieve the same high quality results while saving money!  
**Request your sample today...let us convince you!**

**MACHEREY-NAGEL**

[www.mn-net.com](http://www.mn-net.com)



# Protino® Glutathione Agarose 4B

The cost-effective alternative for GST-tag purification

## Product at-a-glance

Application	Batch binding Gravity flow column chromatography MPLC (e.g. FPLC™)
Matrix	4% Beaded agarose
Bead size	90 µm
Form	75% (v/v) Aqueous suspension
Ligand	Glutathione
Binding capacity*	>8 mg recombinant GST/ml medium
Max. linear flow rate	250 cm/h
Storage temperature	4-8 °C

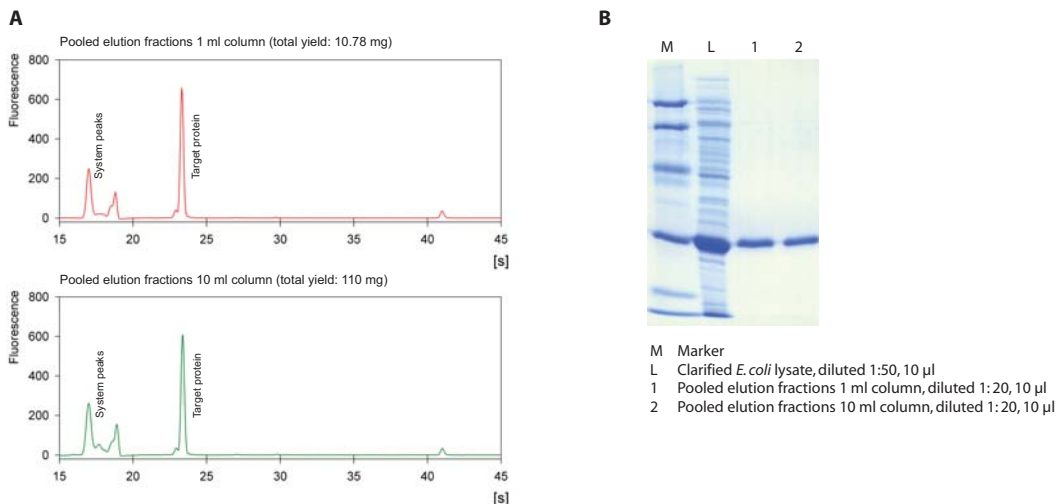
\* The binding capacity will vary for each GST-tagged protein

## Application data part II

**Protino® Glutathione Agarose 4B allows highly consistent upscaling from 1 ml to 10 ml bed volume.**

The yield was 10.78 mg for the 1 ml column and 110 mg for the 10 ml column, the high purity was shown by Bioanalyzer and SDS-PAGE analysis.

Data: FPLC™ application, system ÄKTAprime™ plus, 1 ml and 10 ml bed volume, sample 0.6 and 6 ml clarified *E. coli* lysate containing recombinant GST, yield 1 ml column: 10.78 mg, 10 ml column: 110 mg. **A** Electropherograms Bioanalyzer, pooled elution fractions 1 ml and 10 ml column. **B** SDS-PAGE of pooled elution fractions 1 ml and 10 ml column



For more information about Protino® Glutathione Agarose 4B and other Protino® products contact your local distributor or see [www.mn-net.com/protein](http://www.mn-net.com/protein)

## Ordering information

Product	Pack of	Reference
Protino® Glutathione Agarose 4B	10 ml	10 ml settled beaded agarose 745500.10
	100 ml	100 ml settled beaded agarose 745500.100

Distributed by:

Sepharose™, FPLC™, and ÄKTAprime™ are trademarks of GE Healthcare companies.

**MACHEREY-NAGEL**

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

Germany  
Tel.: +49 (0) 2421 969-270  
e-mail: [tech-bio@mn-net.com](mailto:tech-bio@mn-net.com)

USA  
Tel.: +1 610-559-9848  
e-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

France  
Tel.: +33 (0) 388 682268  
e-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

Switzerland  
Tel.: +41 (0) 62 388 55 00  
e-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)



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