

Description

CarbPROFILE gels are monosaccharides-Sepharose affinity matrices used for purification of specific carbohydrate-binding proteins¹. The carbohydrates are attached through their non reducing hydroxyl group after pre-activation of sepharose matrix by divinylsulfone (DVS) (see scheme 1 below). The binding of lectins and carbohydrates binding proteins to carbohydrate affinity gel is non-covalent and reversible with high capacity (over 1 mg/mL). Lectins and carbohydrates binding proteins can be recovered by competitive elution (i.e. 0.2 to 0.5 M of monosaccharide) or by modulations of pH and/or ionic strength in high yield and purity. Each new batch of affinity matrix produced are fully characterized by measurement of its capability to bind lectins and recover the same amount of proteins from batch to batch which assure a total reliability.



Scheme 1. CarbPROFILE gel matrix

Specifications of CarbPROFILE gel

See below, *Table 1*, the specification of CarbPROFILE gel matrix.

Reference	Name	Specificity	Capacity (mg of protein/mL of gel)	Unit size ^a (mL)
CGF	Fucose-CarbPROFILE gel	Fucose binding protein	> 15 (based on UEA-I lectin)	5, 10 or 25
CGGa	Galactose-CarbPROFILE gel	Galactose binding protein	> 15 (based on AIA lectin)	5, 10 or 25
CGGN	N-Acetylglucosamine-CarbPROFILE gel	N-Acetylglucosamine binding protein	> 15 (based on WGA lectin)	5, 10 or 25
CGM	Mannose-CarbPROFILE gel	Mannose binding protein	> 30 (based on ConA lectin)	5, 10 or 25
CGR	Rhamnose-CarbPROFILE gel	Rhamnose binding protein	> 15 (based on CorM lectin)	5, 10 or 25

Table 1. Specifications of CarbPROFILE gel. a. available in a pre-packed column or in suspension.

Applications

CarbPROFILE gel is used for purification of specific carbohydrate-binding proteins from naturals or recombinant sources:

- lectins,
- lectins-like,
- GAG-binding proteins.

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References

1. Andon, N. L., Eckert, D., Yates III, J. R., Haynes, P. A. *Proteomics*, **2003**, 3, 1270-1278.

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