

## Description

**CarbPROFILE gels** are monosaccharides-Sepharose affinity matrices used for purification of specific carbohydrate-binding proteins<sup>1</sup>. 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. Lectins and carbohydrates binding proteins are both usually stable compounds which 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.



**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 <sup>a</sup> (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.

## References

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