LT172 GL Sciences Inc.

Purification of 2-AB Derivatized Glycans Using MonoSpin

When analyzing glycans, Fluorescent derivatization method is often used before measurement by HPLC. Although large amounts of unreacted derivatizing reagents remain in the solution immediately after the derivatization reaction, only unreacted reagents can be removed by performing solid-phase extractions prior to injecting them into the HPLC.

Using MonoSpin, a spin-type solid-state column, separate sugar chains derivatized with 2aminobenzamide (2-Aminobenzamide,2-AB) from unreacted reagents. As a result of evaluating the two types of MonoSpin Amide and MonoSpin NH2, both of them recover sugar chains of more than trisaccharide.

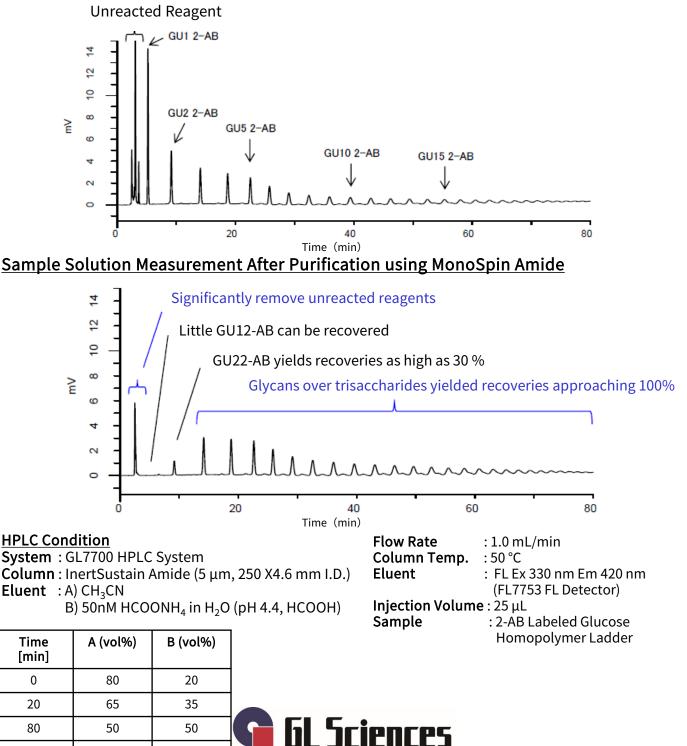
(Y. Yui, C. Aoyama, S. Ota)

Sample Solution Measurement Without Purification

50

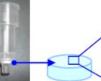
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90



♦MonoSpin

The MonoSpin series is a spin-column using silic monoliths with uniform continuum pores. Silica monoliths with high porosity are used as carriers so they can be passed through by centrifugal manipulation alone. Therefore, it is possible to purify and concentrate samples by a simple operation in a short time. It is also suitable wher the sample volume is small because the bed volume is small and the liquid can be cut off.



MonoSpin

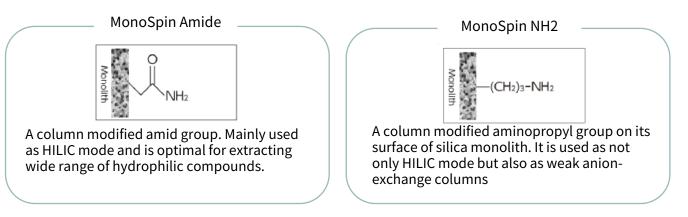


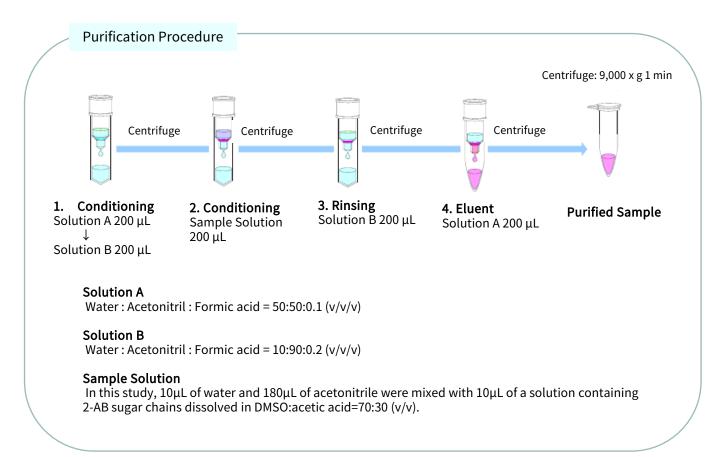
Enlarged view of

The procedure is centrifugation.

Silica monolith disk

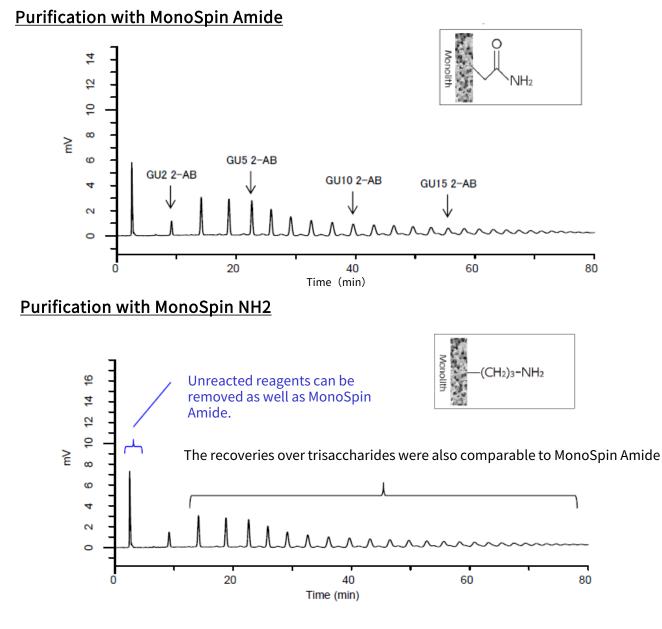
Purification using MonoSpin





If MpnoSpin NH2 is Used Instead of MonoSpin Amide

MonoSpin NH2 works not only in the HILIC mode but also in the negative ion-exchange mode, but the effects of this study were almost equivalent to those of MonoSpin Amide.



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