Analysis of Aqueous Polysaccharides

PL aquagel-OH MIXED 8 µm Columns

Advantage Statement: PL aquagel-OH MIXED 8 μ m columns have a broad molecular weight resolving range, simplifying column selection and providing a flexible analytical system.

Due to the complex nature of water soluble polymers, it is often necessary to modify the eluent in order to avoid sample-to-sample and sample-to-column interactions which can result in poor aqueous SEC separations. To counteract ionic interactions, the eluent was modified in thios analysis by the addition of salt. Figure 1 shows a typical raw data chromatogram for a mixture of pullulan standards. The higher molecular weight pullulans are relatively broad (polydispersity 1.2). In order to improve the separation, additional columns of the same type may be added

Columns: 3 x PL aquagel-OH MIXED 8 μ m, 300 x 7.5 mm Eluent: 0.2M NaNO, + 0.01M NaH, PO, at pH 7 + 30% methanol

Flow Rate: 1 mL/min Detection: RI

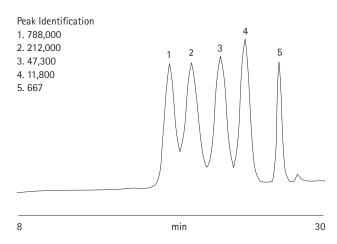


Figure 1. Raw data chromatogram for a mixture of pullulan standards.

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