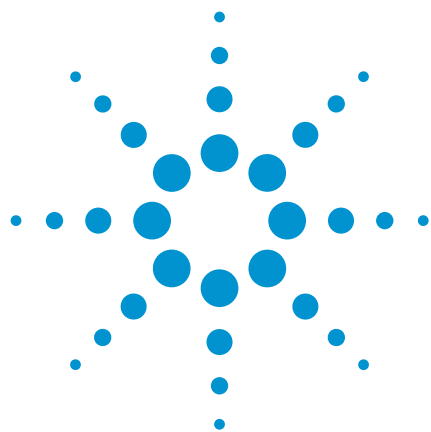




Add a Column to Improve GPC Resolution

Agilent PLgel 10 μm MIXED-B Columns

Technical Overview

Introduction

Resolution in GPC is improved by the addition of extra columns due to an increase in system efficiency and a decrease in the slope of the calibration curve. These effects are demonstrated in the separation of Agilent EasiCal polystyrene standards, on PLgel MIXED-B columns.



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PLgel 10 μ m MIXED-B columns are designed for high MW polymer analysis and demanding eluent conditions. The PLgel 10 μ m MIXED-B spans a wide range of molecular weights, up to 10 million, with a linear calibration curve. It is particularly useful for molecular weight distributions where slightly higher than average MWs are encountered. The 8–10 μ m particle size provides good resolution with relatively low pressures for enhanced lifetimes in demanding conditions.

Conditions

Columns: (a) 1 x PLgel 10 μ m MIXED-B, 300 x 7.5 mm
(b) 3 x PLgel 10 μ m MIXED-B, 300 x 7.5 mm (part number PL1110-6100)

Eluent: THF

Flow Rate: 1.0 mL/min

Detection: RI

Peak Identification

1. 3,040,000
2. 330,000
3. 66,000
4. 9,200
5. 580

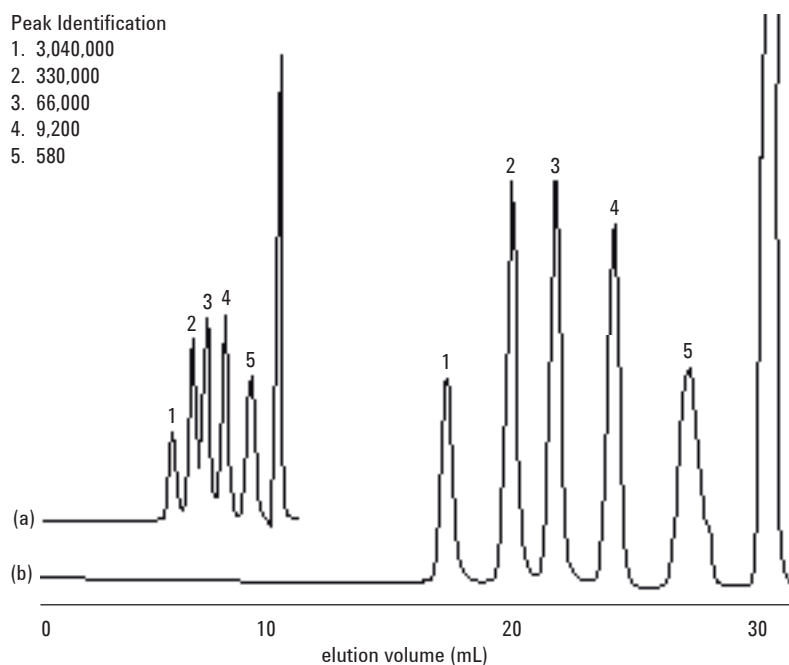


Figure 1. Separation of EasiCal polystyrene standards on PLgel MIXED-B columns

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