Linear Calibration Curves for Mixed Columns

Agilent PLgel MIXED Columns

Technical Overview

Introduction

A significant number of GPC applications involve the analysis of polydisperse materials. The modern approach to column selection is to choose PLgel MIXED gel columns where every column contains a mixture of individual pore size materials, accurately blended to cover a specified broad range of molecular weight with a linear calibration to eliminate column mismatch.

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Each type of PLgel MIXED gel column is designed for specific types of application, with pore size and particle size distribution matched to the application area. The linear operating range of molecular weight of each PLgel MIXED gel column is illustrated in GPC calibration curves, generated using narrow polystyrene standards.

Conditions

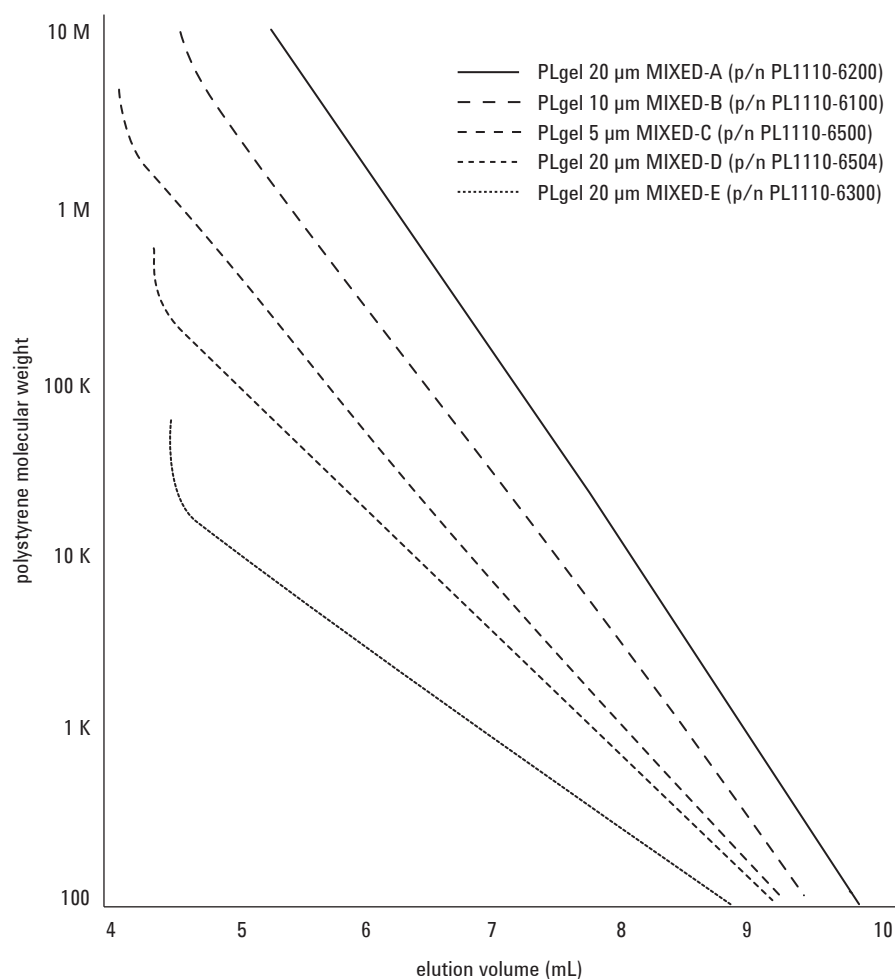|	
Columns:	Every set of data was obtained using a single PLgel MIXED 300 x 7.5 mm column
Eluent:	THF
Flow Rate:	1.0 mL/min
Detection:	RI

— PLgel 20 μm MIXED-A (p/n PL1110-6200)
— PLgel 10 μm MIXED-B (p/n PL1110-6100)
— PLgel 5 μm MIXED-C (p/n PL1110-6500)
— PLgel 20 μm MIXED-D (p/n PL1110-6504)
— PLgel 20 μm MIXED-E (p/n PL1110-6300)

Figure 1. PLgel MIXED gel column GPC calibration curves

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