Using Pre-prepared Calibration Kits

Agilent EasiCal Pre-prepared Calibration Kits

Technical Overview

Introduction

Agilent's EasiCal polystyrene standards make column calibration easy and convenient. The EasiCal system consists of two different combs, both with ten detachable spatulas supporting a mixture of five polymer standards. The thin film of polymer (approx 5 mg) on the tip of the PTFE spatulas rapidly dissolves when immersed in eluent to provide two GPC/SEC calibration solutions.

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There are two polystyrene EasiCal versions: PS-1 (Mw range 580-7,500,000) and PS-2 (Mw range 580-400,000). They can be used with any GPC system or column. EasiCal PS-1 pre-prepared standards can be used to calibrate Agilent PLgel MIXED-A columns. With typical efficiencies of 17,000 plates per meter, a four column set is recommended to achieve baseline resolution of the standards.

Conditions

Columns: 4 x PLgel 20 µm MIXED-A, 300 x 7.5 mm (p/n PL1110-6200)
Flow Rate: 1.0 mL/min
Detection: UV, 254 nm

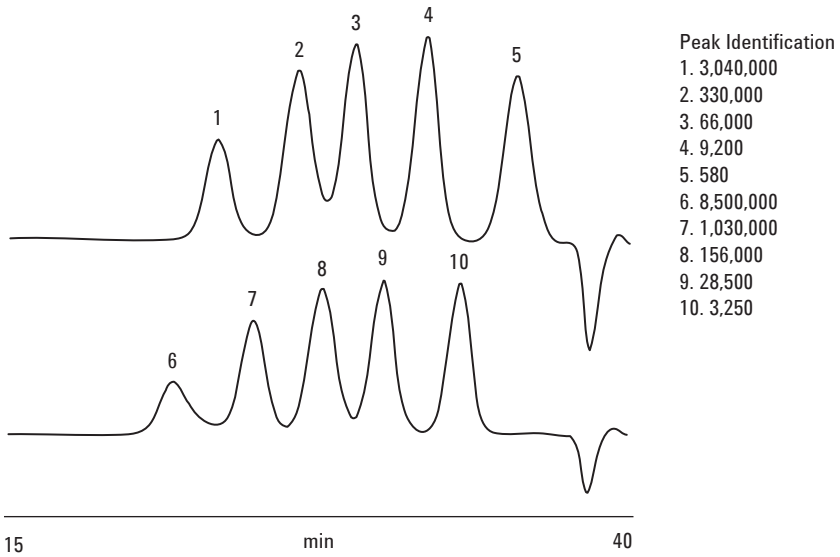

Figure 1. PLgel 20 µm MIXED-A column calibration using EasiCal PS-1 pre-prepared calibrants

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