

Polystyrene Standards on Agilent PLgel 3 μ m MIXED-E using Gel Permeation Chromatography

Technical Overview

Introduction

In a separation of polystyrene standards by gel permeation chromatography, the individual oligomers of the 580 standard are resolved. However, the 34,500 standard is just excluded.

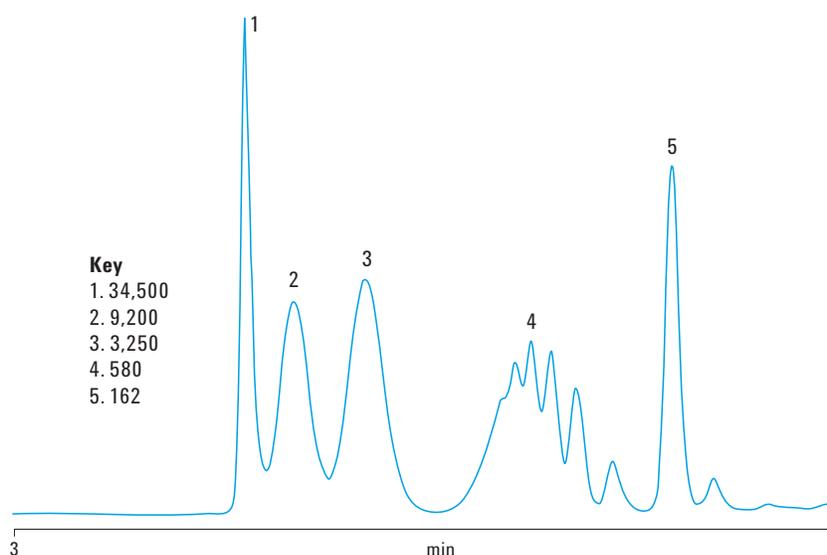


Figure 1. Separation of low molecular weight polystyrene standards on an Agilent PLgel 3 μ m MIXED-E column.

Conditions

| | |
|-----------|---|
| Column | Agilent PLgel 3 μ m MIXED-E, 300 mm \times 7.5 mm (p/n PL1110-6300) |
| Eluent | THF |
| Flow Rate | 1.0 mL/min |
| Detector | UV, 254 nm |
| System | Agilent PL-GPC 50 |

Verified for Agilent
1260 Infinity
GPC/SEC System



Agilent Technologies

Agilent PLgel 3 μm MIXED-E columns

Agilent PLgel MIXED-E, 3 μm columns, with their high efficiency (> 80,000 plates/meter) and broad resolving molecular weight range (up to 30,000 daltons relative to polystyrene), are the columns of choice for low molecular weight prepolymers.

GPC/SEC columns and calibrants from Agilent

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