

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

Technical Overview

Introduction

Gel permeation chromatography using Agilent PLgel 3 μ m MiniMIX-E narrow bore columns easily resolves polystyrene Mw 580 into individual oligomers.

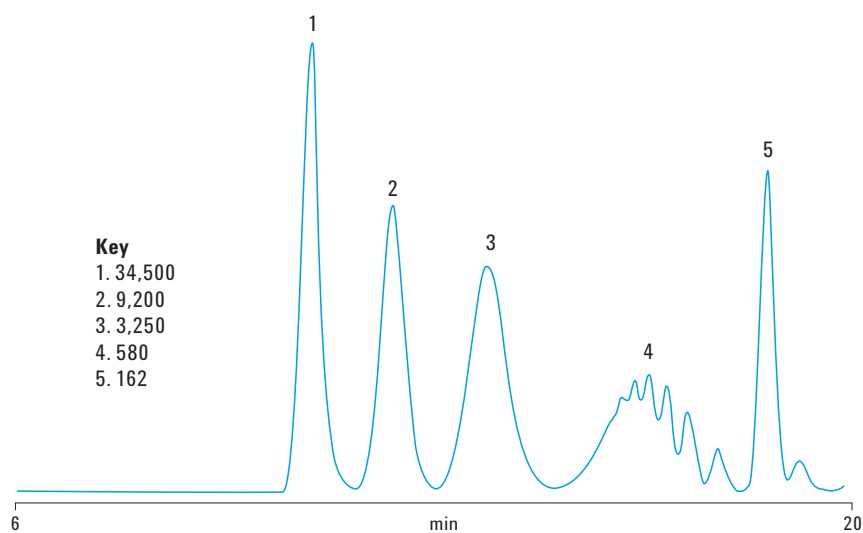


Figure 1. Separation of low molecular weight polystyrene standards on Agilent PLgel 3 μ m MiniMIX-E columns.

Conditions

Column	2 \times Agilent PLgel 3 μ m MiniMIX-E, 250 mm \times 4.6 mm (p/n PL1510-5300)
Eluent	THF
Flow Rate	0.3 mL/min
Detector	UV, 254 nm
System	Agilent PL-GPC 50



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Agilent PLgel 3 μ m MiniMIX-E columns

Agilent PLgel MIXED-E, with its high efficiency (> 80,000 plates/m) and broad resolving molecular weight range (up to 30,000 daltons relative to polystyrene), is the preferred packing for low molecular weight prepolymers. The PLgel MiniMIX-E version is valuable in reducing solvent use by 70% when compared to the PLgel MIXED-E version.

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