



Wide Range MW Separation by Aqueous SEC

Agilent PL aquagel-OH MIXED-H 8 μ m Columns

Technical Overview

Introduction

PL aquagel-OH MIXED-H 8 μ m columns provide high resolution (>35,000 plates/m) over a very wide range of molecular weights, simplifying column selection and providing a flexible analytical system.

Due to the extremely hydrophilic nature of these columns, neutral polymers such as polyethylene glycol/oxide (PEG/PEO) can be run with pure water as the eluent, using size exclusion chromatography (SEC). Figure 1 shows a typical raw data chromatogram for a mixture of Agilent PEO/PEG standards. The broad molecular weight resolving range of the PL aquagel-OH MIXED-H 8 μ m column is clearly evident.



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Conditions

Column: PL aquagel-OH MIXED-H 8 μ m,
300 x 7.5 mm (p/n PL1149-6800)

Eluent: Water

Flow Rate: 1 mL/min

Detection: RI

Peak Identification

1. 1,702,000
2. 120,000
3. 12,600
4. 1,470
5. 106

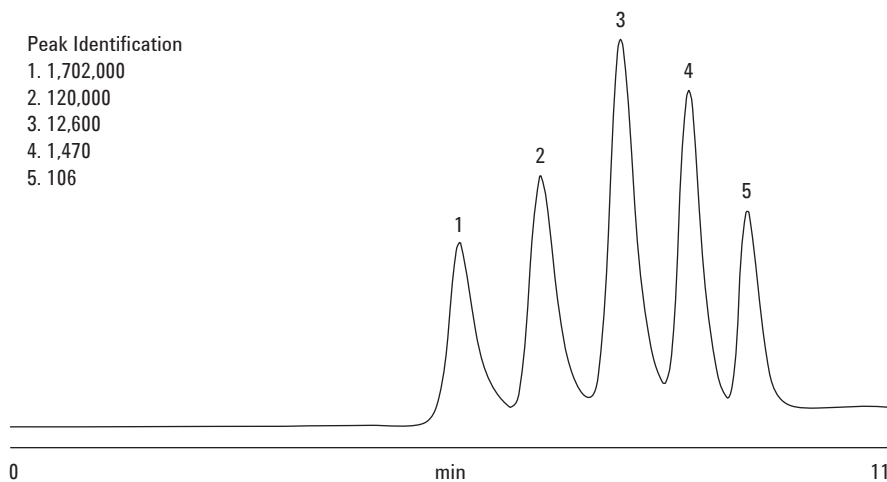


Figure 1. Good separation of a broad MW mixture of PEG/PEO standards

These data represent typical results. For further information, contact your local Agilent Sales Office.

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