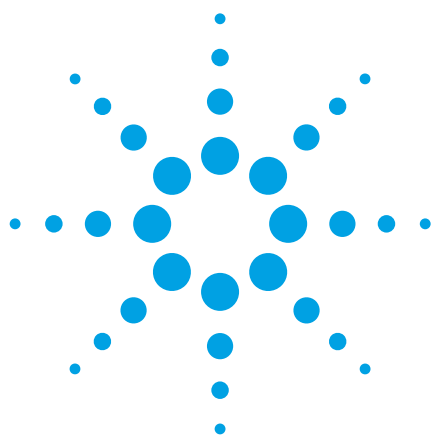




Effect of Injection Volume on Oligomer Separation with Agilent PLgel and GPC

Technical Overview

Introduction

An investigation of injection volume or loading indicates how overloading can severely decrease the resolution of oligomers during gel permeation chromatography. The effect is demonstrated using an Agilent PLgel 5 μ m column with two different injection volumes.

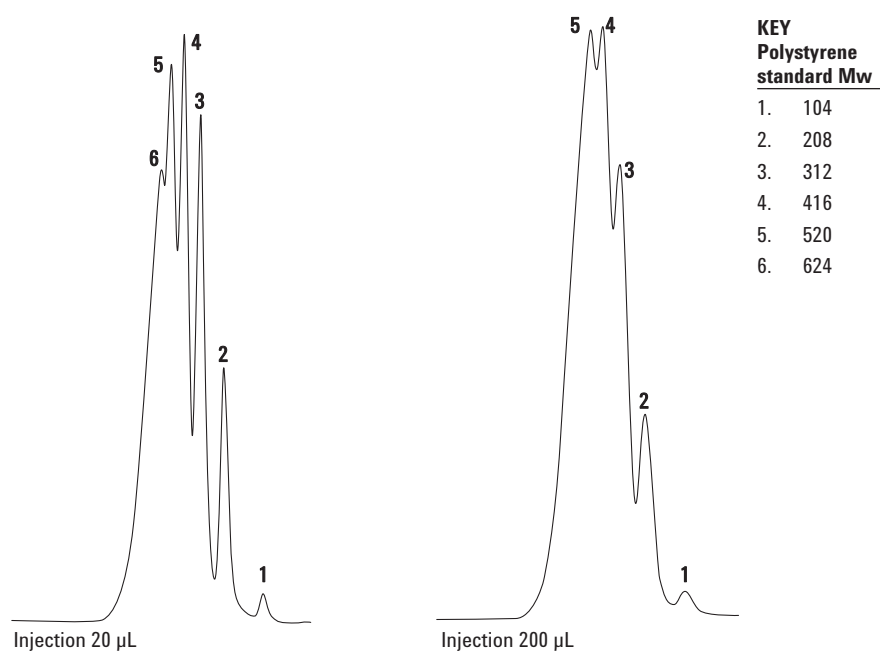


Figure 1. Separation of polystyrene standards on an Agilent PLgel 5 μ m column to illustrate the effect of different injection volumes.



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Conditions

Calibrants	Agilent Polystyrene Standard 480
Columns	Agilent PLgel 5 μ m 100Å, 300 $\times$ 7.5 mm (p/n PL1110-6520)
Eluent	THF
Flow rate	1.0 mL/min
Conc	0.1%
Detector	RI
System	Agilent PL-GPC 50

GPC/SEC Columns and Calibrants from Agilent

Agilent offers a comprehensive portfolio of GPC/SEC columns and calibrants for high-performance separations based on molecular size in solution. Agilent delivers leading solutions for characterizing and separating polymers by GPC/SEC, and manufactures all components for accurate polymer analysis.

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