

PEG Standards and Aqueous SEC Agilent PL aquagel-OH 40 8 μm Columns

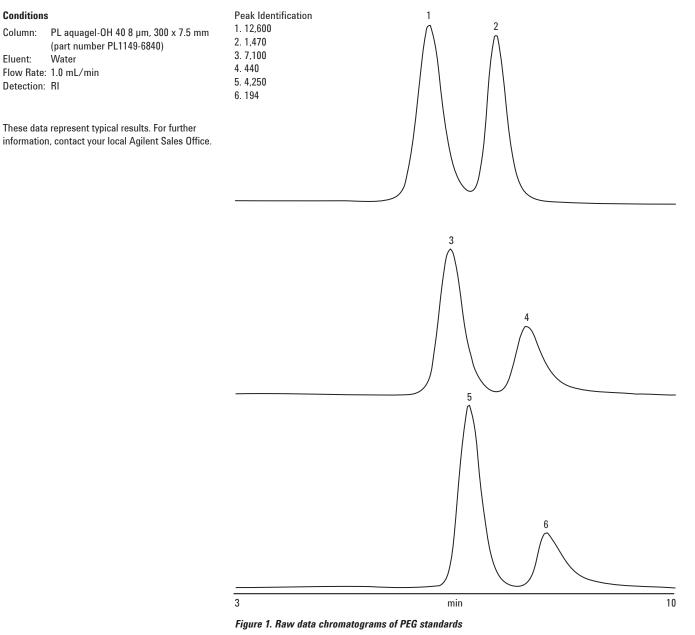
Technical Overview

Introduction

Size exclusion chromatography is widely used for the determination of molecular weight distributions of a variety of synthetic and naturally occurring water soluble polymers, and separations of oligomers and small molecules. The requirement to eliminate ionic and hydrophobic effects makes aqueous SEC very demanding. Durable and versatile PL aquagel-OH columns are packed with macroporous copolymer beads with an extremely hydrophilic polyhydroxyl functionality to perform in even the most demanding conditions.

The 'neutral' surface and the capability to operate across a wide range of eluent conditions provide for high performance analyses of analytes with neutral, ionic and hydrophobic moieties, singly and in combinations. PL aquagel-OH 40 8 μ m high performance columns are ideal for medium molecular weight separations, combining high pore volume and high column efficiency for maximum resolution. Due to the extremely hydrophilic nature of PL aquagel-OH columns, neutral polymers like polyethylene oxide/glycol (PEO/PEG) can be run in pure water as the eluent. Figure 1 shows raw data chromatograms of Agilent PEG standards obtained by SEC using a PL-aquagel-OH 40 8 μ m column.





www.agilent.com/chem

This information is subject to change without notice. © Agilent Technologies, Inc. 2010 Published in UK, September 17, 2010 SI-01572

