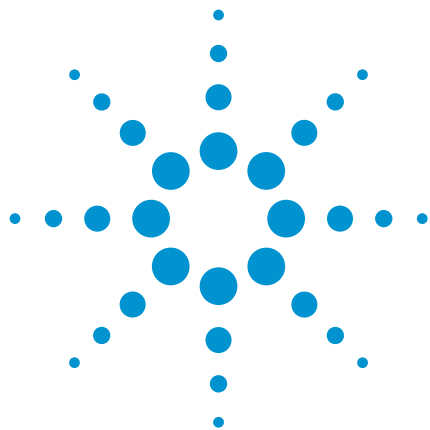




Calibration Curves

Agilent PLgel MiniMIX Columns

Technical Overview

Introduction

Narrow bore GPC columns from Polymer Laboratories, now a part of Varian, Inc., offer high performance, excellent solvent compatibility and mechanical stability. These columns can be used with conventional GPC equipment and provide high performance, comparable to PL's conventional ID columns, the benefit of ~ 70 % reduction in solvent consumption, increased operator safety and reduced solvent disposal costs.

To maintain the same linear velocity through the column, the volumetric flow rate must be reduced to 0.3 mL/min, in line with the column cross sectional area. This provides significantly lower solvent consumption. Sample loadings are scaled down in line with the reduced column volume, and system dead volume minimized to avoid excessive band broadening.



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Figure 1 shows a set of GPC calibration curves for the PLgel MiniMIX column range.

Conditions

Columns:

PLgel 20 μm MiniMIX-A, 250 x 4.6 mm
(part number PL1510-5200)

PLgel 10 μm MiniMIX-B, 250 x 4.6 mm
(part number PL1510-5100)

PLgel 5 μm MiniMIX-C, 250 x 4.6 mm
(part number PL1510-5500)

PLgel 5 μm MiniMIX-D, 250 x 4.6 mm
(part number PL1510-5504)

PLgel 3 μm MiniMIX-E, 250 x 4.6 mm
(part number PL1510-5300)

Eluent: THF

Flow Rate: 0.3 mL/min

Detection: UV, 254

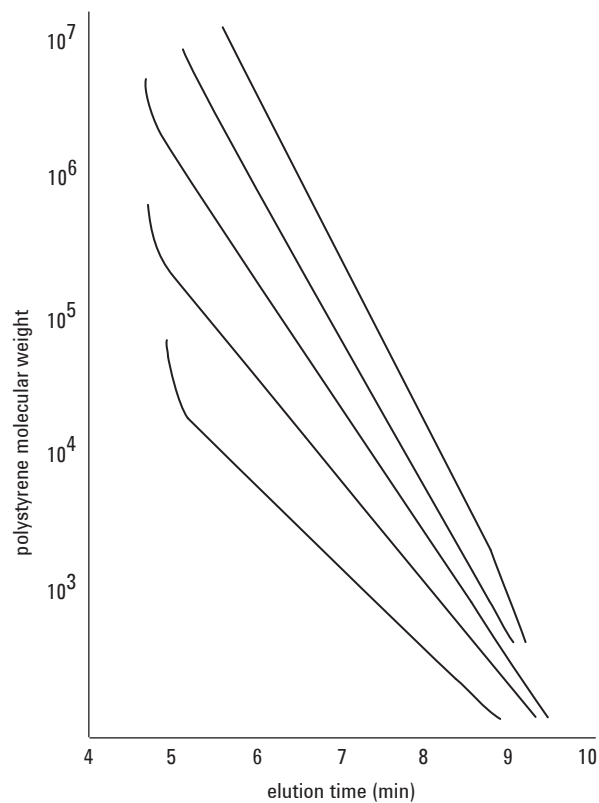


Figure 1. Set of GPC calibration curves for the PLgel MiniMIX column range

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