Plate Count vs Flow Rate - Effect of Particle Size
Agilent PLgel Columns

Technical Overview

Introduction

PLgel is a highly crosslinked porous polystyrene/divinyl benzene matrix the columns have high pore volumes and high efficiency for maximum resolution. Wide solvent compatibility makes for easy transfer between polar and non-polar solvents. The column’s outstanding physical rigidity gives extended lifetimes, especially at high temperatures and in aggressive solvents.
Figure 1. PLgel o-DCB in THF

Plate count (scale dependent on particle size)

Flow rate (mL/min)

polystyrene 9 K
polystyrene
polystyrene 180 K