



Separation of Polysaccharides on SRT[®]

Benefiting from unique surface bonding and wide pore size selection (100 Å- 2,000 Å), SRT SEC phases are ideal for separation and characterization of water soluble polymers. Even though each individual SRT SEC column is suitable for separation and characterization of water soluble polymers, two columns connected in series are recommended for achieving highest resolution, efficiency and accuracy. SRT SEC-150 and SRT SEC-1000 are recommended for measurement of water soluble polymers.

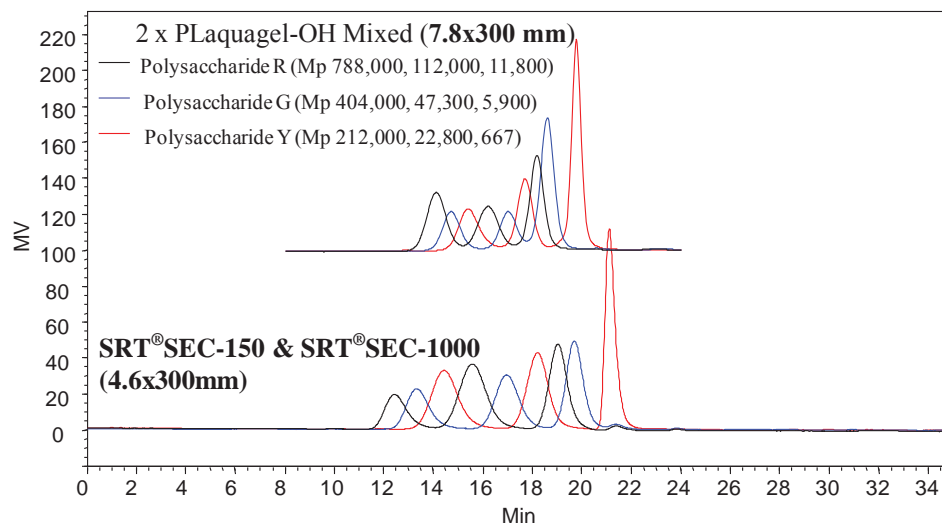


Figure 1. Top : overlay of the chromatograms of polysaccharide R,G, Y on 2 x PLaquagel-OH
Bottom : overlay of the chromatograms of polysaccharide R, G, Y on SRT 150 + SRT 1000

Column: SRT[®] SEC-150 & SRT[®] SEC-1000 (4.6x300mm)
Mobile Phase: 0.2 M phosphate buffer, pH 7.0
Flow Rate: 1.0 mL/min
Detection: Refractive index
Sample: Polysaccharides
Sample concentration: 1.0 mg/mL
Injection volume: 100 μ L
Courtesy of Dr. Kihong Park, Popsis Lab

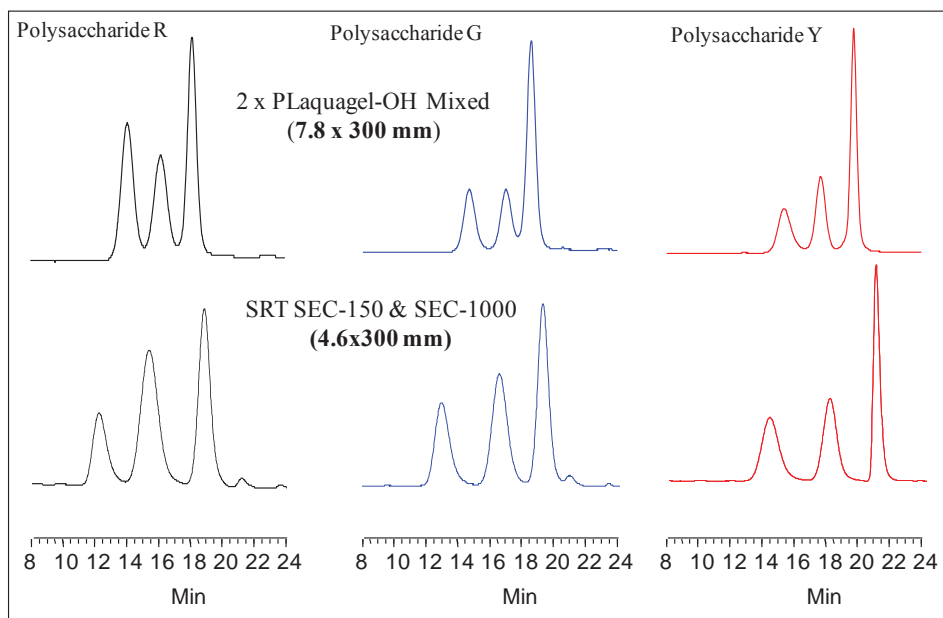


Figure 2. Separate chromatograms for polysaccharide R, G and Y on 2 x PLaquagel-OH Mixed (top) and SRT SEC-150 & SEC-1000 (bottom) respectively.

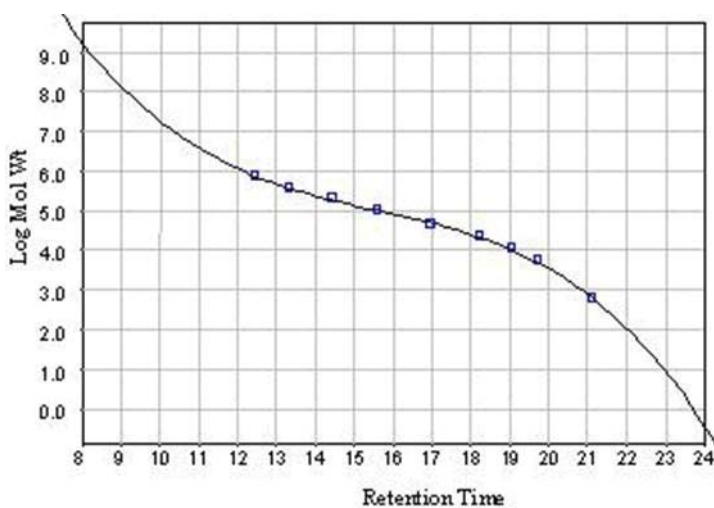


Figure 3. Calibration curve of polysaccharide MW vs. retention time by using a SRT SEC-1000 column (5 μ m, 4.6 \times 300 mm) and a SRT SEC-150 column (5 μ m, 4.6 \times 300 mm). (Courtesy of Dr. Kihong Park, Polysi sLab)

Keywords: size exclusion, SRT, polysaccharides, two columns in tandem