

SEC of the block copolymer:

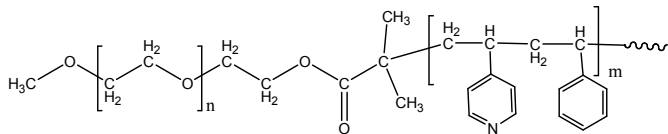
P10207-EO-S4VPran

sample Name:

Poly(ethylene oxide -b- styrene-co-4vinylpyridine)random copolymer

Sample #: **P10207-EOS4VPran**

Structure:



Composition:

Mn x 10 ³ PEO-b-S4VP	PDI
5.0-b-15.0	1.5
S:4VP ratio 15:85	

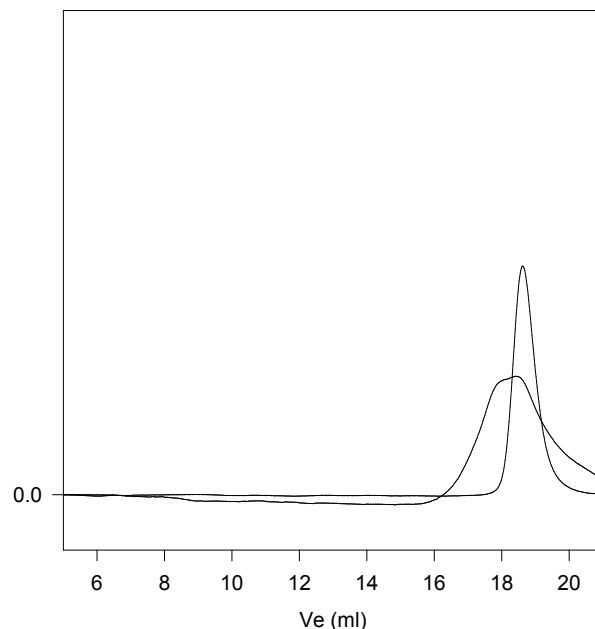
Synthesis Procedure:

Characterization:

An aliquot of the anionic poly(ethylene oxide) block was terminated before addition of lactide and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

Solubility:

The polymer is soluble in chloroform, DMF, methanol and precipitates from, ether and hexane.



Size exclusion chromatography of the polymer carried out in DMF:

— mPEG M_n=5000, M_w=5,200, PI=1.05

— Block Copolymer EO(5,000)-b-S4VPran (15,000), PI=1.5

¹H-NMR Spectrum of the block copolymer:

