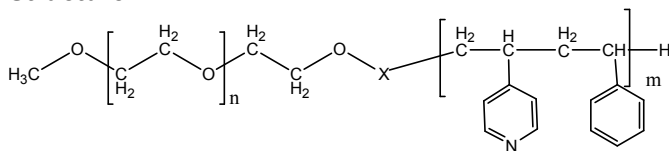


Sample Name:

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

Sample #: **P14260-EOS4VPran**

Structure:



Composition:

Mn x 10 <sup>3</sup> PEO-b-S4VP	PDI
5.0-b-40.0	1.35
EO:S:4VP ratio 22 : 8 : 70	

**Synthesis Procedure: proprietary procedure**

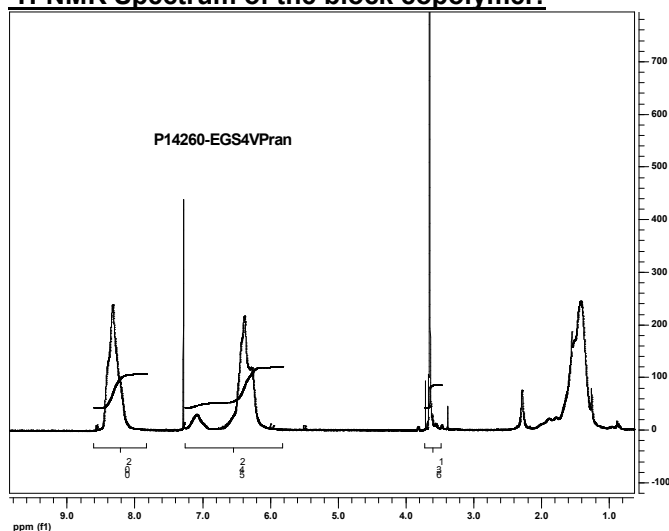
**Characterization:**

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 <sup>1</sup>H-NMR spectroscopy.

**Solubility:**

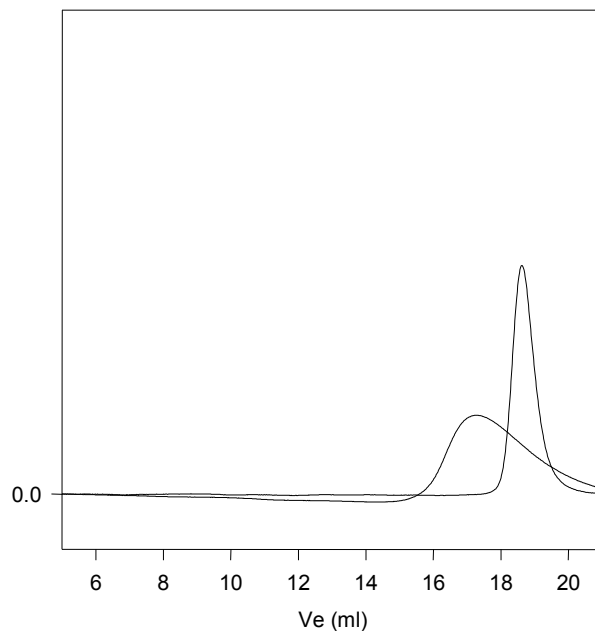
The polymer is soluble in chloroform, DMF, methanol and precipitates from, ether and hexane.

**<sup>1</sup>H-NMR Spectrum of the block copolymer:**



**SEC of the block copolymer:**

**P14260-EOS4VPran**



Size exclusion chromatography of the polymer carried out in DMF:

— mPEG Mn=5000, Mw=5,200, PI=1.05

— Block Copolymer EO(5,000)-b-S4VPran (40,000), PI=1.35