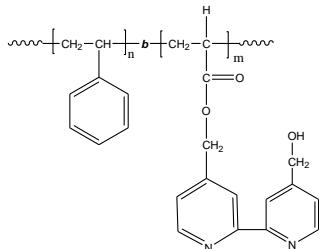


Sample Name:

Poly(styrene-*b*-4-Hydroxy methyl bipyridinyl methyl acrylate) block copolymer

Sample #: P16178-SBPyA

Structure:



Composition:

Mn x 10 ³ (PS-PBPyA)	PDI (Mw/Mn)
42.0-16.8	1.18

Synthesis Procedure:

Block copolymer of poly(styrene-*b*-*t*-butylacrylate) was prepared by anionic living polymerization.

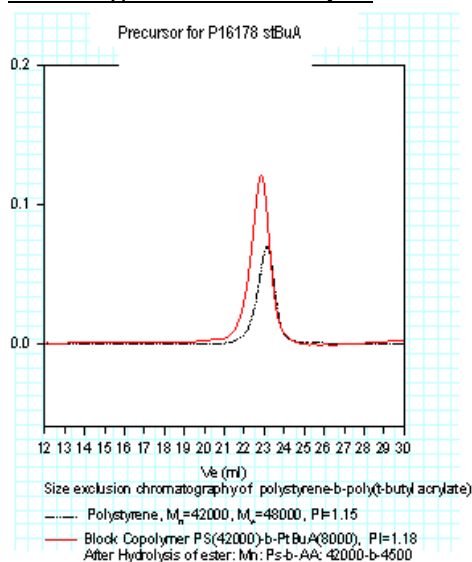
Characterization:

By HNMR and GPC of the starting material Pol(s-*t*BuA) before attaching 4,4-bis (hydroxymethyl)-2,2-bipyridine molecule.

Solubility:

Polymer is soluble in THF (cloudy in higher concentration), CHCl₃, DMF, DMSO. It is precipitated out from cold hexane.

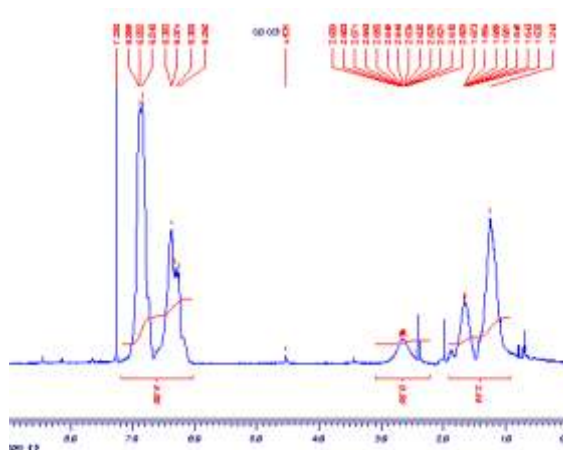
SEC elugram of the Sample:



NMR Spectrum:

The NMR results show differently in various solvents, in deuterated chloroform only polystyrene signals, and in deuterated DMSO only bipyridine signals. The experiments are duplicated and the same results are obtained. We do not know how to explain exactly, the micellation may be caused a problem.

In CDCl₃:



In DMSO-d₆:

