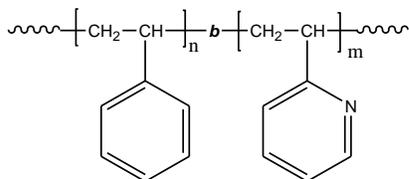


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P41204-S2VP

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
42.0-b-48.0	1.07
T _g for PS block: 98°C	T _g for 2VP block: 146°C

Synthesis Procedure:

Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at -78°C in the presence of LiCl as an additive.

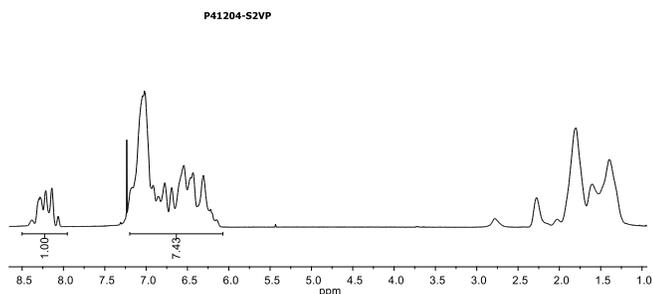
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

Solubility:

Poly (styrene-*b*-2 vinylpyridine) is soluble in THF, toluene, and CHCl₃. The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

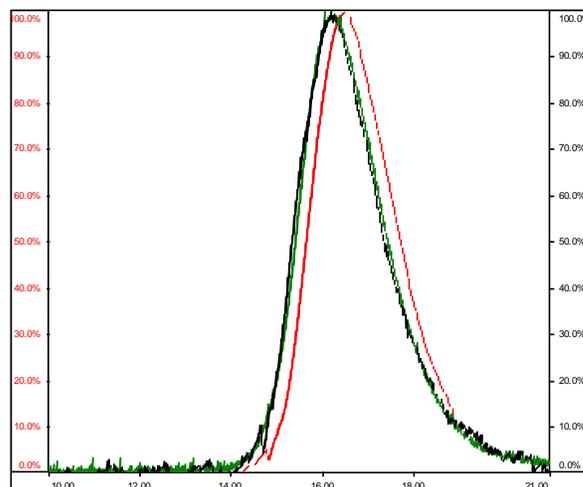
H-NMR Spectrum of the Sample:



SEC elugram of the S block:

P41204-1-S

Conc	1.4506
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

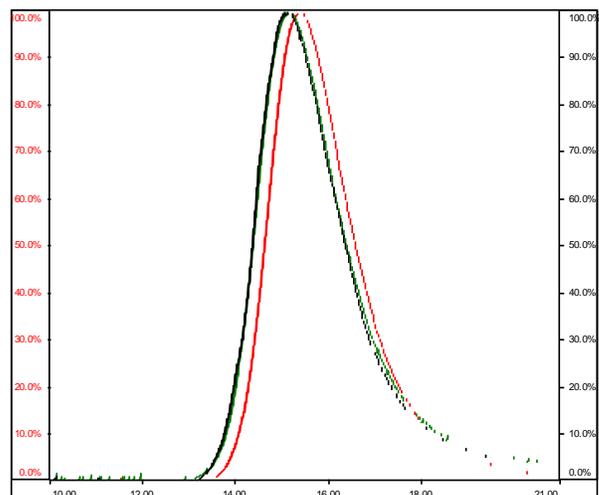


Sample	Mn	Mw	Mp	Mw/Mn	IV
P41204-1_01.vdt	42,460	45,903	41,957	1.081	0.5718

SEC elugram of the Sample:

P41204-S2VP

Conc	3.8848
dn/dc	0.1600
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41204-S2VP_01.vdt	99,881	106,736	97,160	1.069	0.8963