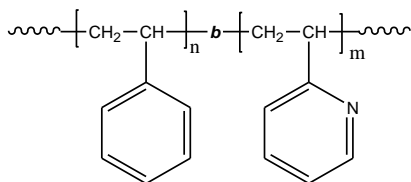


Sample Name: Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P42071-S2VP

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
204.0-b-36.0	1.09

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.

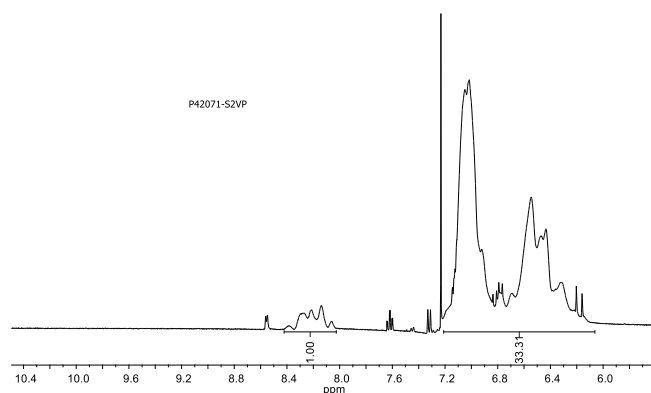
Characterization:

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:

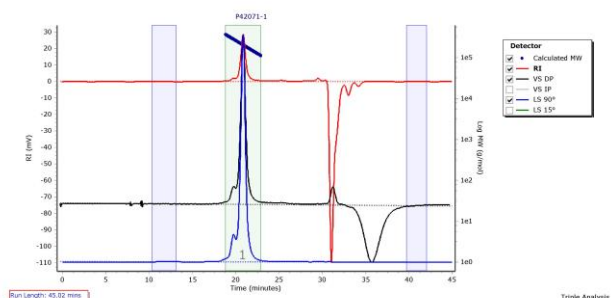


SEC elugram of the S block:

Agilent GPC/SEC Software

P42071-1

Chromatogram Plot



Molecular Weight Averages

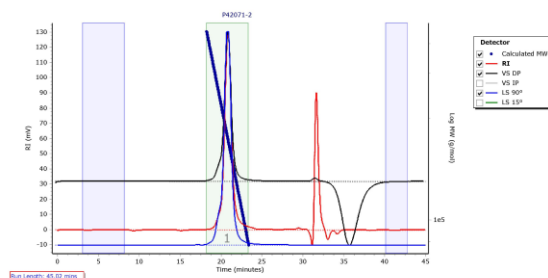
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	206429	204076	208820	213743	219143	212684	1.023

SEC elugram of the Sample:

Agilent GPC/SEC Software

P42071-2

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	253579	239821	260832	282083	310956	278839	1.088