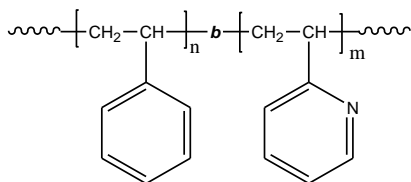


Sample Name:
Polystyrene-*b*-poly (2-vinyl pyridine)

Sample #: **P42137-S2VP**

Structure:



Composition:

Mn x 10 ³ PS- <i>b</i> -2VP	PDI
60.5- <i>b</i> -78.0	1.03

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.

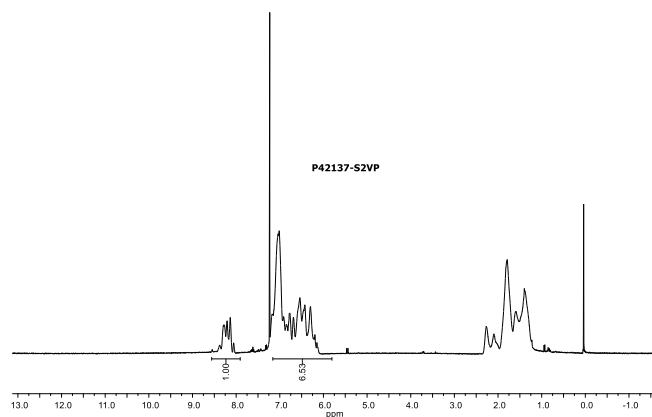
Characterization:

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:

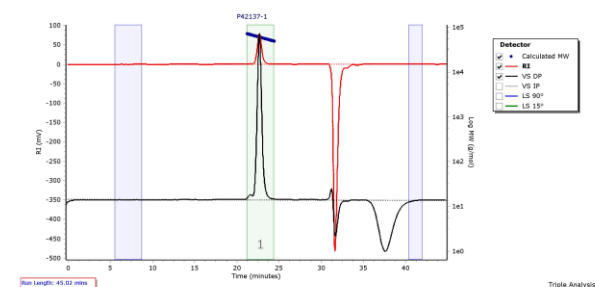


SEC elugram of the S block:

Agilent GPC/SEC Software

P42137-1

Chromatogram Plot



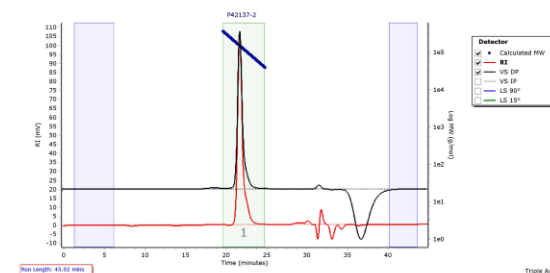
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	60789	60502	60595	60687	60780	60714	1.002

SEC elugram of the Sample:

Agilent GPC/SEC Software

P42137-2

Chromatogram Plot



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	151407	138589	143863	147908	151276	147761	1.038