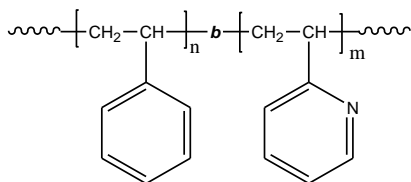


Sample Name:
Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: **P42080A-S2VP**

Structure:



Composition:

Mn x 10 ³ PS-b-2VP	PDI
194.0-b-159.0	1.11

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.

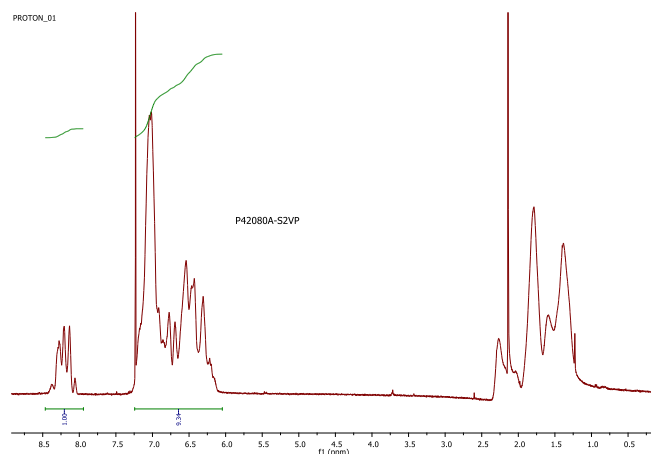
Characterization:

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:

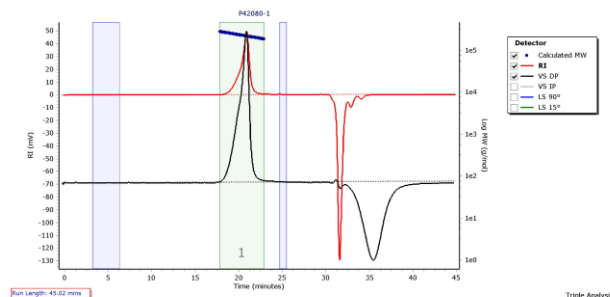


SEC elugram of the S block:

Agilent GPC/SEC Software

P42080-1

Chromatogram Plot

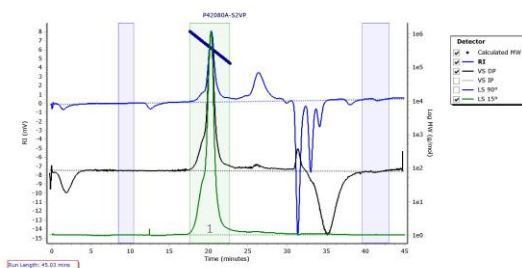


SEC elugram of the Sample:

Agilent GPC/SEC Software

P42080A-S2VP

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
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Peak 1	371531	350980	391153	438112	499722	429145	1.114
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