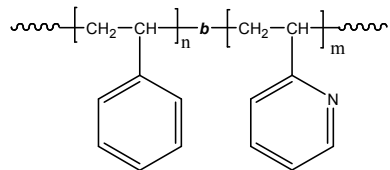


Sample Name:  
Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: P40095-S2VP

Structure:



Composition of PS-*b*-P2VP diblock copolymer:

$M_n \times 10^3$ (g/mol)	PDI
189.0- <i>b</i> -598.0	1.22

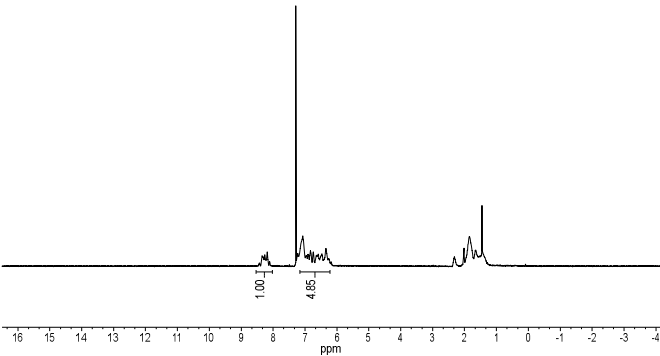
Synthesis:

Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at  $-78^\circ\text{C}$  in the presence of LiCl as an additive.

Characterization:

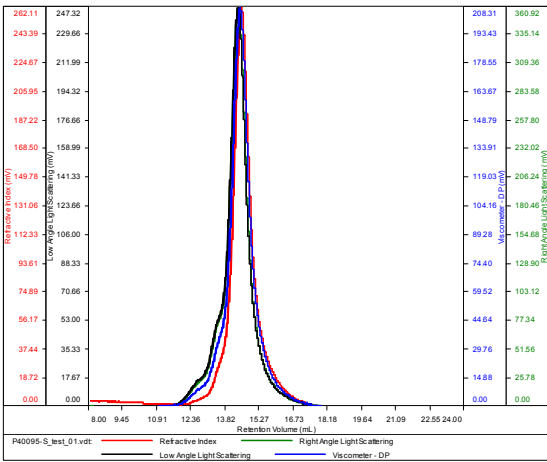
The polymer was characterized by  $^1\text{H}$  NMR and size exclusion chromatography (SEC).

$^1\text{H}$  NMR spectrum of PS-*b*-P2VP:



SEC elugram of PS-*b*-P2VP:  
P40095-1

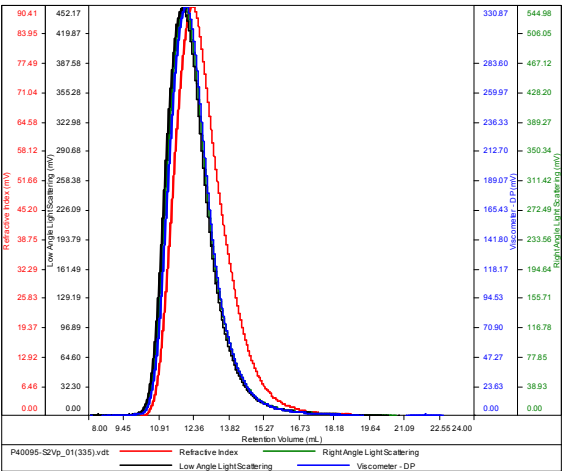
Conc (mg/mL)	9.4261
dn/dc (mL/g)	0.1650
Method	PS80k_December:2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40095-S_test_01.vdt	188,818	206,709	182,236	1.095	0.2443

P40095-S2Vp

Conc (mg/mL)	7.8419
dn/dc (mL/g)	0.1600
Method	PS80k_December:2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40095-S2Vp_01(335).vdt	787,455	965,216	985,995	1.226	0.9156

References:

1. S. K. Varshney, X. F. Zhong and A. Eisenberg *Macromolecules* **1993**, 26, 701–706.
2. Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules* **1994**, 27, 7923–7927.

