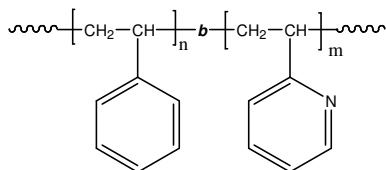


Sample Name:

Polystyrene-*b*-poly (2-vinyl pyridine)

Sample #: **P40105B-S2VP**

Structure:



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

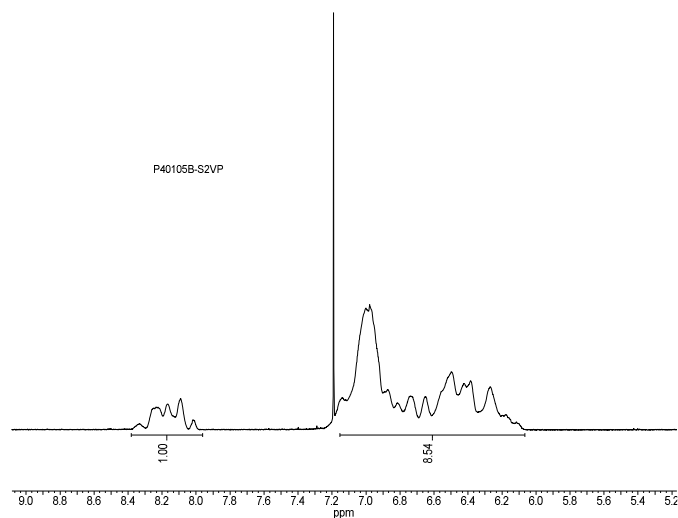
$M_n \times 10^3$ (g/mol)	PDI
250.0- <i>b</i> -200.0	1.18

Synthesis:

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.

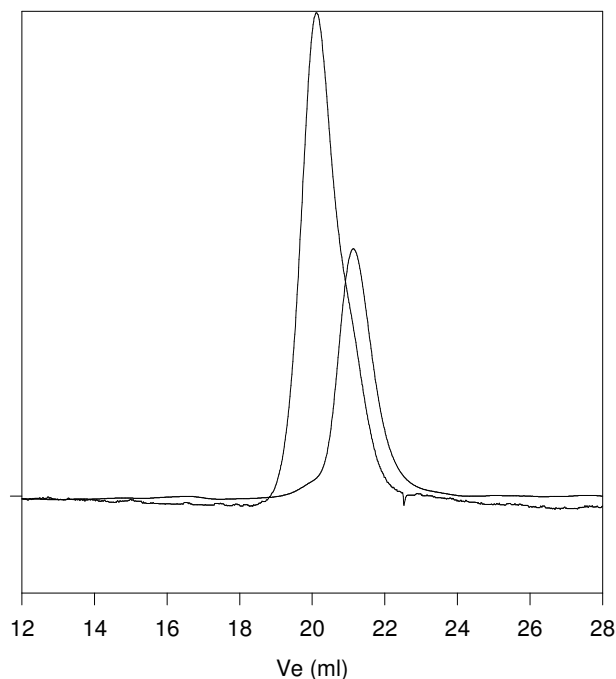
Characterization: The polymer was characterized by ^1H NMR and SEC.

^1H NMR spectrum of PS-*b*-P2VP:



SEC elugram of PS-*b*-P2VP:

P40105B-S2VP



Size exclusion chromatography of poly(styrene-*b*-2-vinyl pyridine)

—— Polystyrene, $M_n=250,000$ $M_w: 275,000$ $PI=1.10$

—— Polystyrene(250,000)-*b*-Poly(200,000), $PI=1.18$

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.