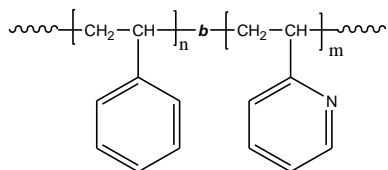


Sample Name:  
**Polystyrene-*b*-poly (2-vinyl pyridine)**

Sample #: **P40096-S2VP**

**Structure:**



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

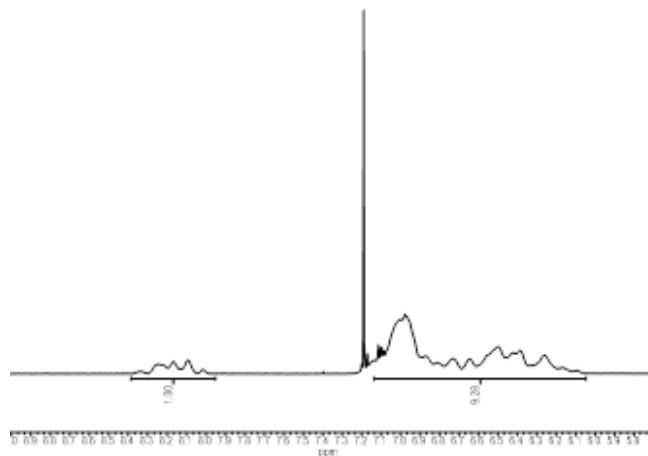
$M_n \times 10^3$ (g/mol)	PDI
250.0- <i>b</i> -231.0	1.18

**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.

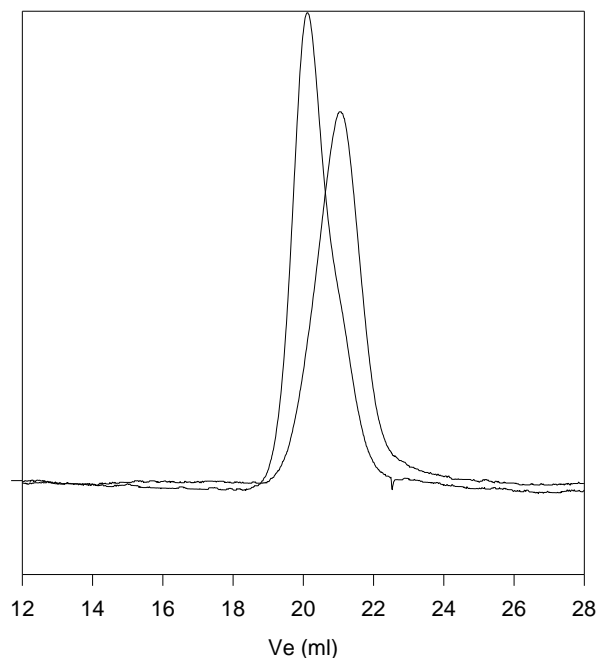
**Characterization:** The polymer was characterized by  $^1\text{H}$  NMR and SEC.

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



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

**P40096-S2VP**



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

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

—— Polystyrene(250,000)-*b*-Poly(231,000), 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.