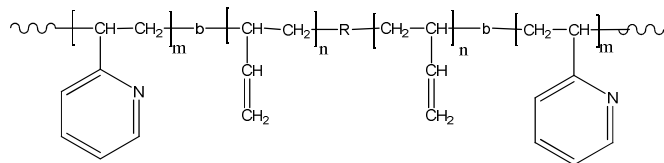


**Sample Name:** Poly(2-vinyl pyridine-b-butadiene-b-2-vinyl pyridine)

**Sample #:** P3204-2VPBd2VP

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> 2VP-b-PBd-b-2VP	PDI
14.0-b-220.0-b-14.0	1.10

**Synthesis Procedure:**

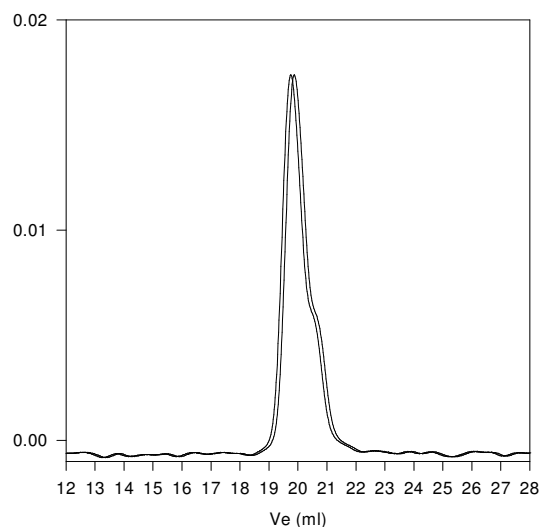
Poly(2-vinyl pyridine-b-Butadiene-b-2-vinyl pyridine) is prepared by living anionic polymerization using a bifunctional initiator with sequence addition of Butadiene followed by 2-vinylpyridine (2VP).

**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. THF was an eluent.

**SEC elugram of the polymer:**

**P3204-2VPBD2VP**



Size exclusion chromatography of:  
Poly(2 vinyl pyridine-b-butadiene<sub>(1,2 addition)</sub>-b-2 vinylpyridine)

— Poly(butadiene), M<sub>n</sub>=220,000, M<sub>w</sub>=253,000, PI=1.15  
— Triblock Copolymer P 2VP(14,000)-b-PBD(220,000)-b-P2VP(14,000) PI=1.10  
Chemical composition for <sup>1</sup>H NMR and by titration

**<sup>1</sup>H NMR spectrum of the polymer:**

