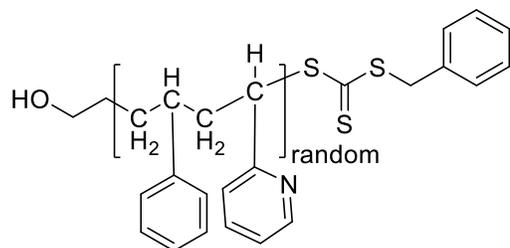


**Sample Name:** Poly (styrene-co-2-vinyl pyridine),  $\alpha$ -hydroxy-terminated

**Sample #:** P16427A-S2VPranOH

**Structure:**

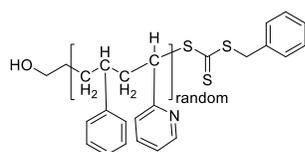
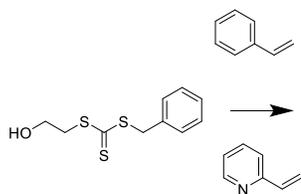


**Composition:**

Mn x 10 <sup>3</sup> PS-co-P2VP	3.0
PDI	1.25
Styrene: 2VP molar ratio	70:30

**Synthesis Procedure:**

The polymer is prepared by RAFT polymerization process using RAFT reagent bearing free OH end group. The following reaction scheme shows how the product was prepared:



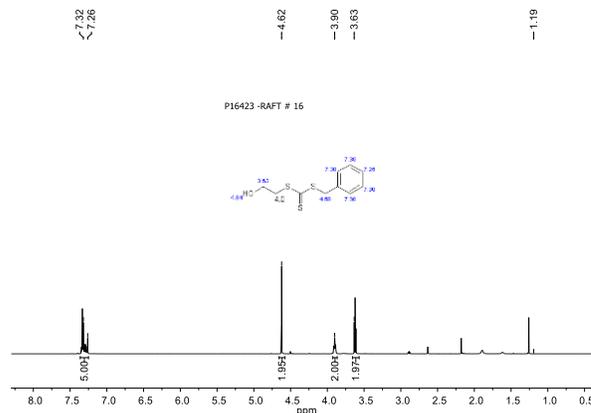
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

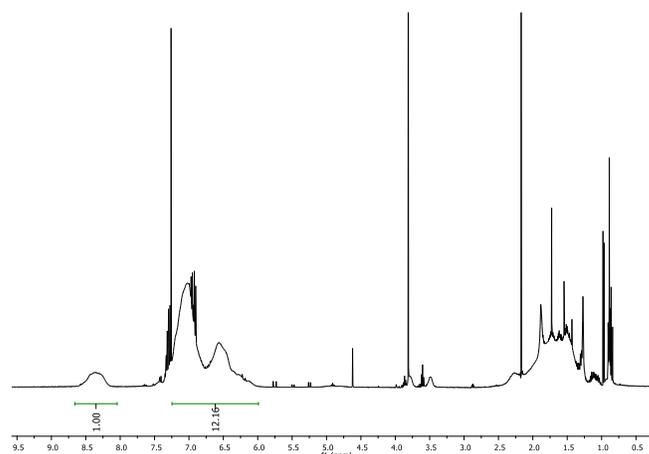
**Solubility:**

The polymer is soluble in CHCl<sub>3</sub>, THF, DMF, toluene and it precipitated out from hexane.

**NMR spectrum of the RAFT CTA:**



**<sup>1</sup>H-NMR Spectrum of the random copolymer:**



**SEC elugram of the random copolymer:**

