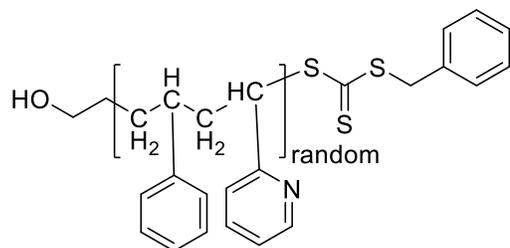


Sample Name: Poly (styrene-co-2-vinyl pyridine), α -hydroxy-terminated

Sample #: P41941-S2VPranOH

Structure:



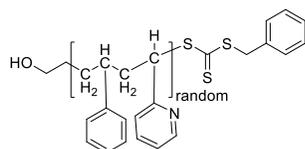
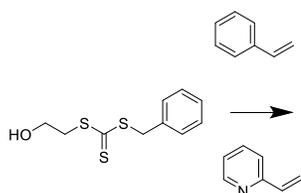
Composition:

Mn x 10 ³ PS-co-P2VP	4.5
PDI	1.2
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:



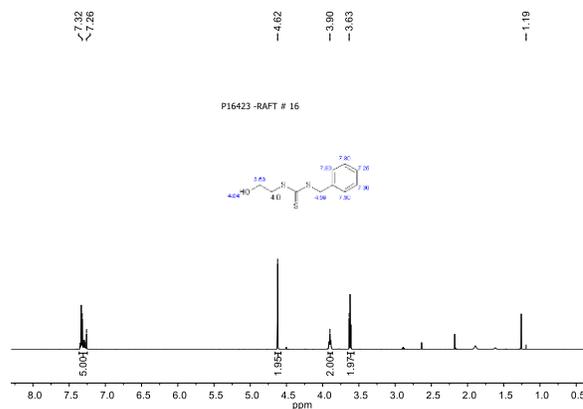
Characterization:

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

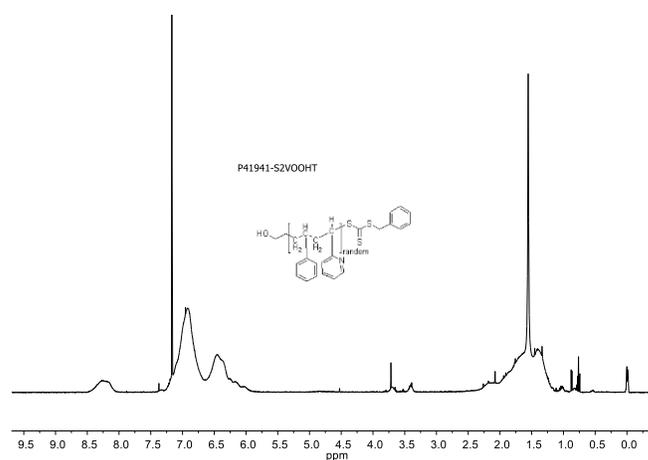
Solubility:

The polymer is soluble in CHCl₃, THF, DMF, toluene and precipitated out from hexane.

NMR spectrum of the RAFT CTA:

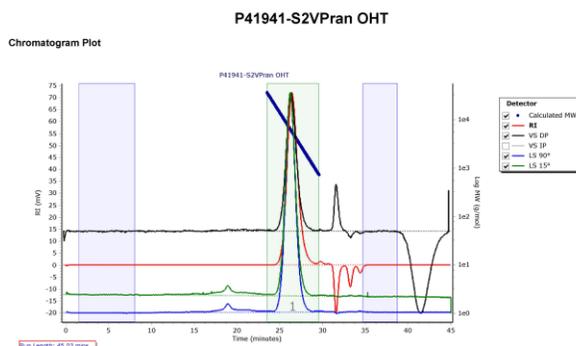


¹H-NMR Spectrum of the random copolymer:



SEC elugram of the random copolymer:

Agilent GPC/SEC Software



Molecular Weight Averages							
Peak	Mp (g/mol)	Min (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	5657	4668	5679	6695	7911	6462	1.217