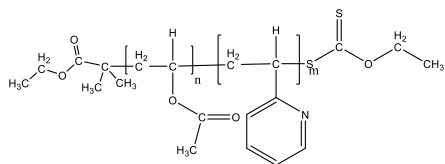


**Sample Name:**  
**Poly(vinyl acetate)-b-poly(2-vinyl pyridine)**

**Sample #:** P42342-VAc2VP

**Structure:**

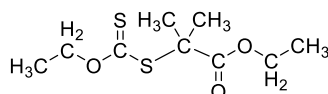


**Composition:**

$M_n \times 10^3$ VAC-b-2VP	PDI
7.0-b-91.0	1.7

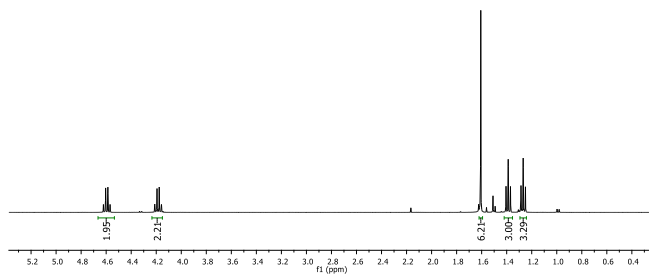
**Synthesis Procedure:**

The product was obtained by successive RAFT polymerization of vinyl acetate and styrene using AIBN as a radical initiator and the following chain transfer agent:



Chemical Formula:  $C_9H_{16}O_3S_2$   
 Exact Mass: 236.05

**$^1H$  NMR of RAFT (400 MHz,  $CDCl_3$ ):**



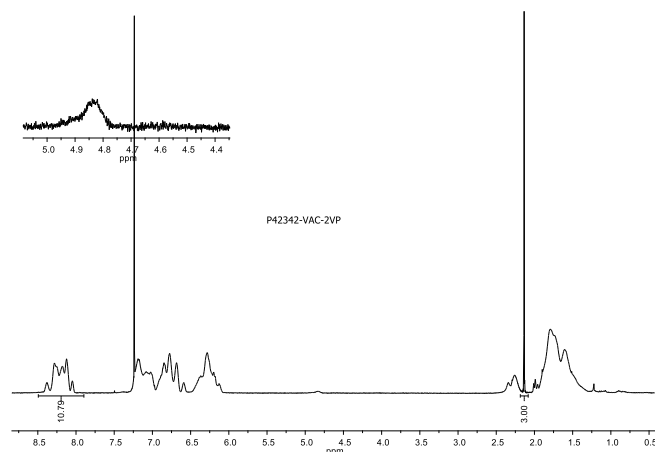
**Characterization:**

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

**Solubility:**

The polymer is soluble in THF, Acetone,  $CHCl_3$  and precipitates from MeOH and Hexane.

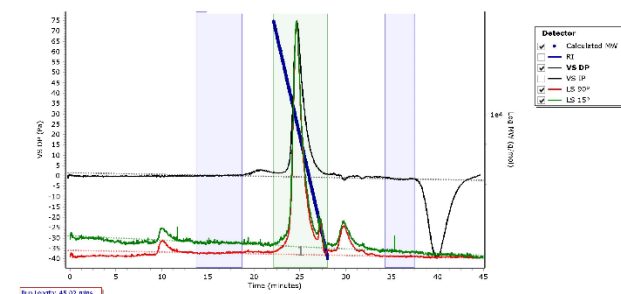
**$^1H$  NMR spectrum of PVAc-b-2VP Sample:**



**SEC elugram of VAC-RAFT macroinitiator:**

Agilent GPC/SEC Software

Chromatogram Plot P42342-VAC-RAFT

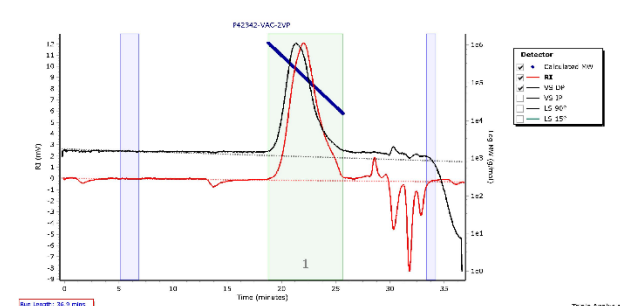


Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9256	7350	8010	8673	9081	8495	1.088

**SEC elugram of VAC-b-2VP Sample:**

Agilent GPC/SEC Software

Chromatogram Plot P42342-VAC-2VP



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	150323	97637	174654	274196	388978	243953	1.789