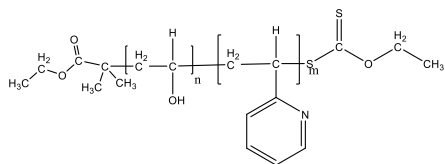


Sample Name:
Poly(vinyl alcohol)-b-poly(2-vinyl pyridine)

Sample #: P42342AF-VA2VP

Structure:



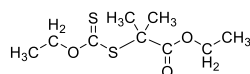
Composition:

$M_n \times 10^3$ VA-b-2VP	PDI
3.5-b-91.0	1.7

Degree of Hydrolysis of VAC	$\pm 98\%$
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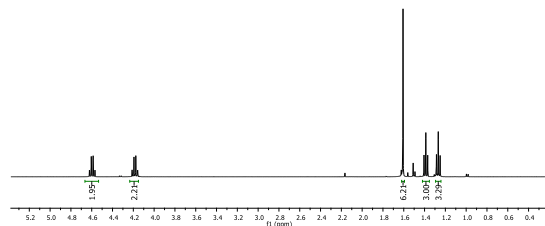
Synthesis Procedure:

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, $CDCl_3$):



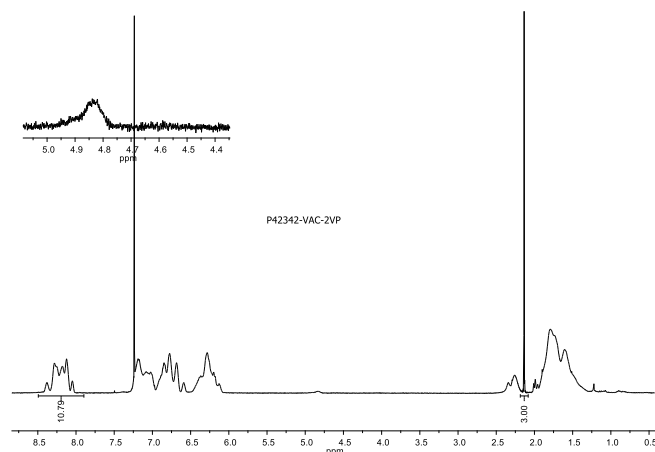
Characterization:

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

Solubility:

Methanol	Water	Water pH<7	DMSO
Soluble With time some particles settle down	No	Solubilize	Partial

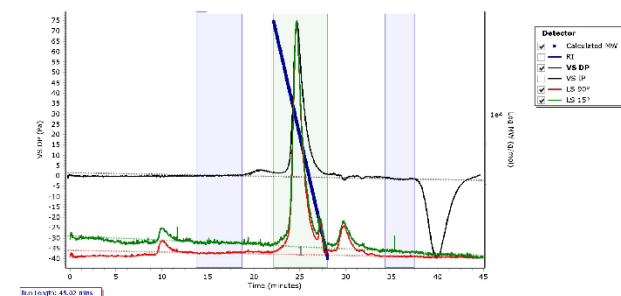
1H NMR spectrum of PVAc-b-2VP:



SEC elugram of VAC-RAFT macroinitiator:

Agilent GPC/SEC Software

Chromatogram Plot P42342-VAC-RAFT

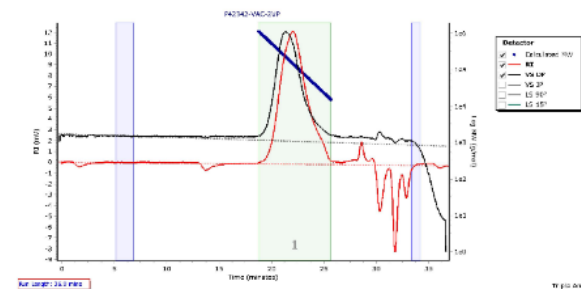


Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9256	7350	8010	8673	9081	8495	1.088

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	150025	51527	174654	274186	388978	243393	1.789