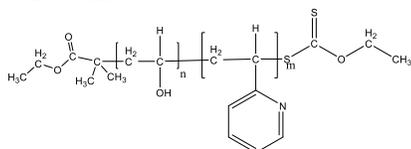


Sample Name:

Poly(vinyl alcohol)-b-poly(2-vinyl pyridine)

Sample #: **P42342AF1-VA2VP**

Structure:



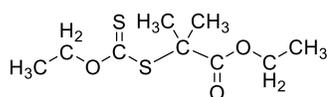
Composition:

$M_n \times 10^3$ VA-b-2VP	PDI
0.8-b-19.0	1.5

Degree of Hydrolysis of VAC	$\pm 95\%$
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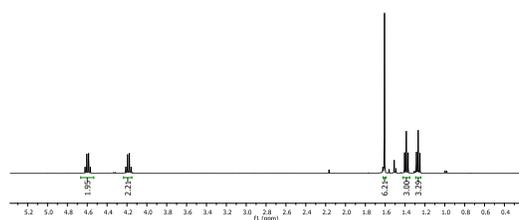
Synthesis Procedure:

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, $CDCl_3$):



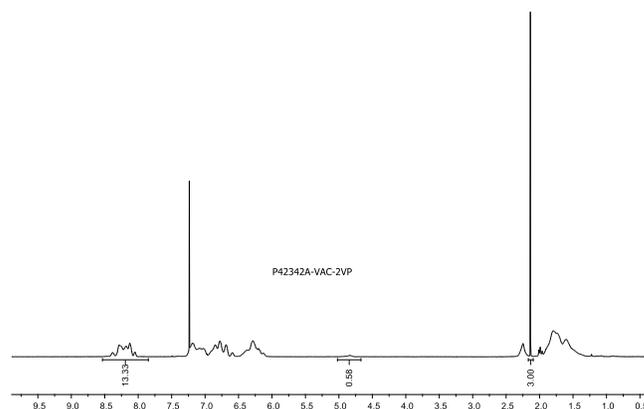
Characterization:

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

Solubility:

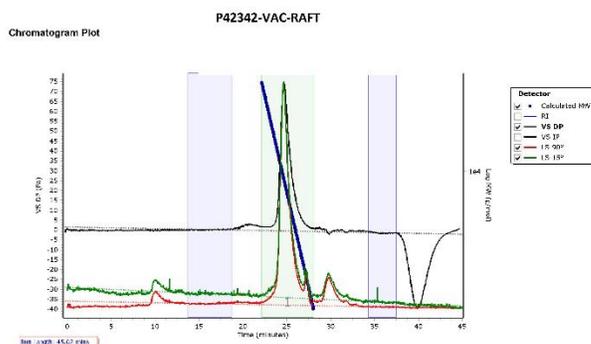
Methanol	Water	Water pH<7	DMSO
Soluble With time some particles settle down	No	Solubilize	Partial

1H NMR spectrum of PVAc-b-2VP



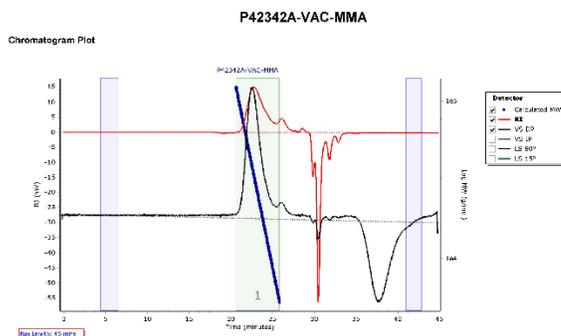
SEC elugram of VAC-RAFT macroinitiator:

Agilent GPC/SEC Software



SEC elugram of VAC-b-2VP Sample:

Agilent GPC/SEC Software



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	35986	20545	50086	39560	47923	37864	1.479