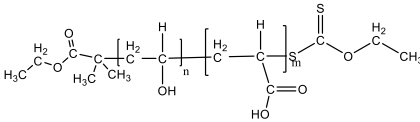


Sample Name: Poly(vinyl Alcohol-b-Acrylic acid)

Sample #: P42359-VAAA

Structure:

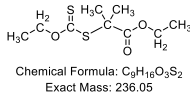


Composition:

$M_n \times 10^3$ VA-b-AA	PDI
5.3-b-34.0	2.7
Solubility in Water clear solution	
Hydrolysis of tert.butyl ester to Acid > 99%	

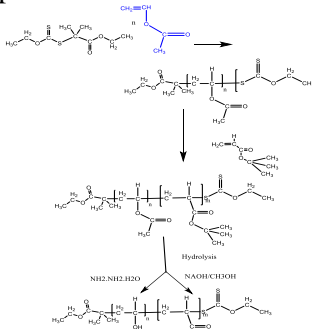
Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

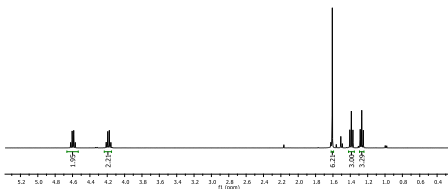


Chemical Formula: $C_9H_{16}O_3S_2$
Exact Mass: 236.05

The following reaction scheme shows how the product was prepared:



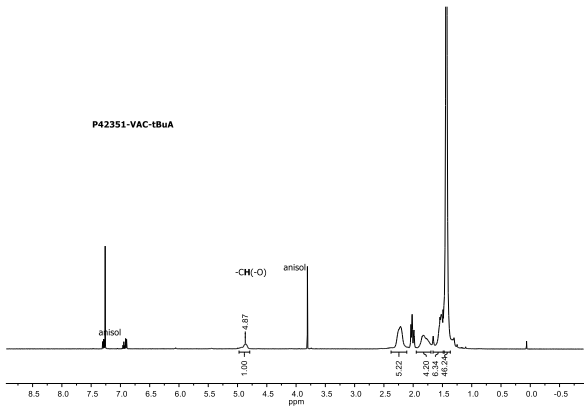
1H NMR spectrum of RAFT (400 MHz, $CDCl_3$):



Characterization:

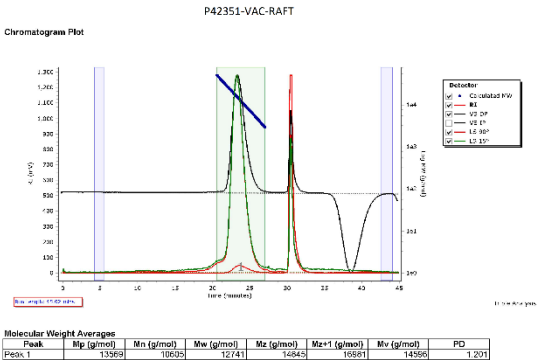
The product was characterized by size exclusion chromatography (SEC) and 1H NMR analysis.

HNMR spectrum of PVAc-b-PtBuA:



SEC elugram of the VAC-RAFT macroinitiator:

Agilent GPC/SEC Software



SEC elugram of VAC-tBuA block copolymer:

Agilent GPC/SEC Software

