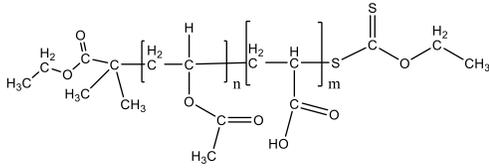


Sample Name: Poly(vinyl acetate)-b-poly(acrylic acid)

Sample #: P42373-VAcAA

Structure:

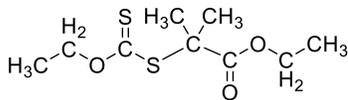


Composition:

$M_n \times 10^3$ (VAC-b-AA)	PDI
6.5-b-62.0	3.0

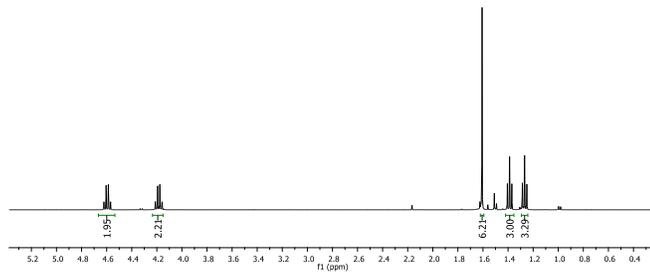
Synthesis Procedure:

The polymer is prepared by RAFT polymerization process using the following RAFT reagent:



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

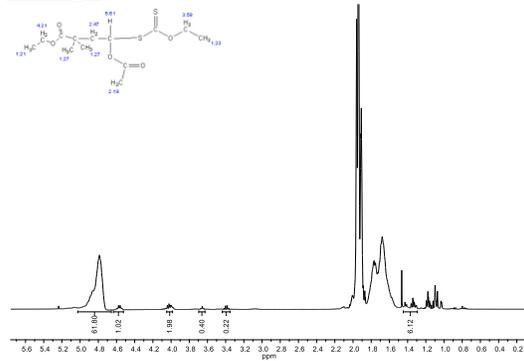
1H NMR of RAFT (400 MHz, $CDCl_3$):



Characterization:

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

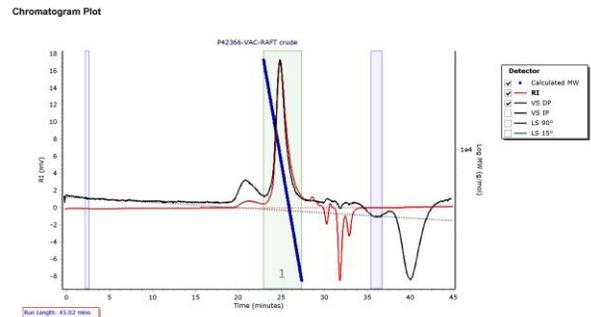
1H NMR spectrum of the Sample (500 MHz, $CDCl_3$):



SEC elugram of the Vac Block::

Agilent GPC/SEC Software

P42366-VAC-RAFT crude

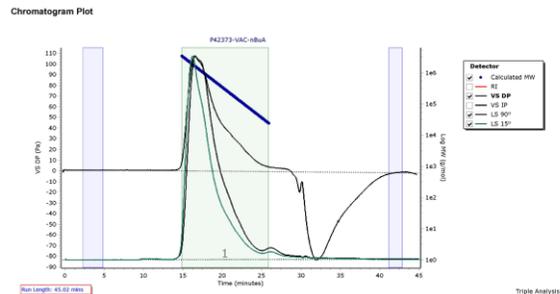


Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9270	6551	8486	10575	13067	9949	1.295

To calculate M_n of Poly acrylic block the polymer was trans esterified to n-Butyl ester and accordingly Polyacrylic composition calculated:

Agilent GPC/SEC Software

P42373-VAC-nBuA



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	116229	117442	356776	928239	1444159	875271	3.038