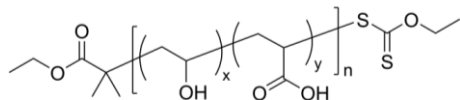


Sample Name:
Poly(vinyl alcohol-co-acrylic acid), random

Sample #: **P42363A-VAAArAn**

Structure:



Composition:

$M_n \times 10^3$	PDI
60.0	3.0
VA: AA	90:10

Synthesis Procedure:

Random Copolymer poly(vinyl acetate-co-acrylic acid) is prepared by RAFT polymerization process. The degree of acid content was determined by ¹H NMR analysis in DMSO.

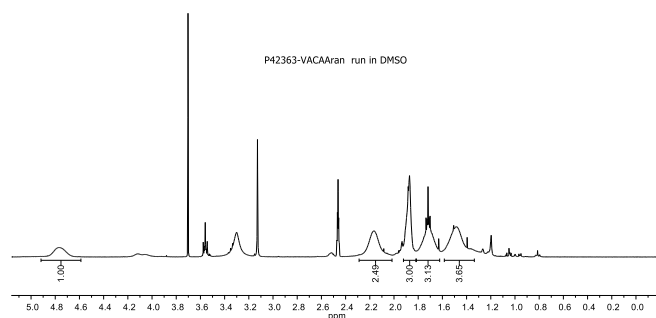
Characterization:

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

Solubility:

Random Copolymer is soluble in THF and methanol.

Proton NMR spectrum of the VACAAran copolymer:

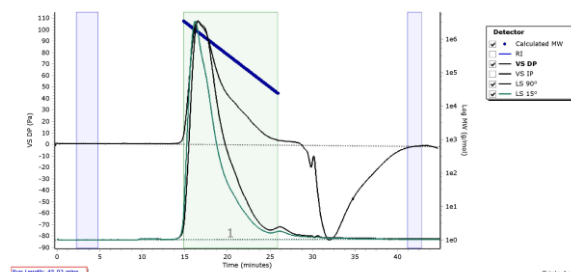


SEC elugram of the VACAAran Sample:

Agilent GPC/SEC Software

P42363-VACAA ran

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
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Peak 1	116225	117442	356776	926239	1444159	875271	3.038
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After Hydrolysis of VAC group to Vinyl Alcohol:
Mn around: 60,000