

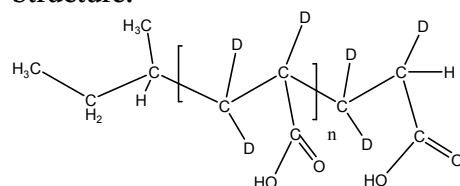
Sample Name:

Deuterated (d3) Poly (acrylic acid)

Backbone protons are deuterated

Sample #: P19281A-d3PAA

Structure:

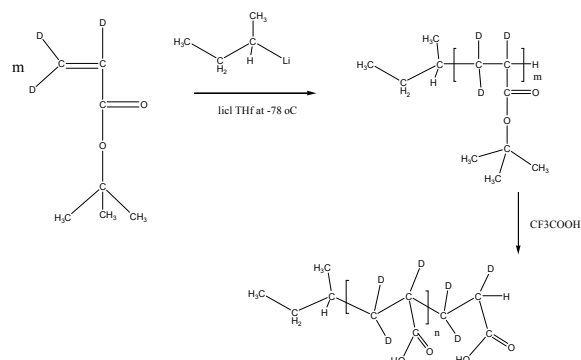


Composition:

Mn x 10 <sup>3</sup>	PDI
4.0	1.10

Synthesis Procedure:

Poly (d3 acrylic acid) is obtained by anionic polymerization of d3 tBuA monomer.

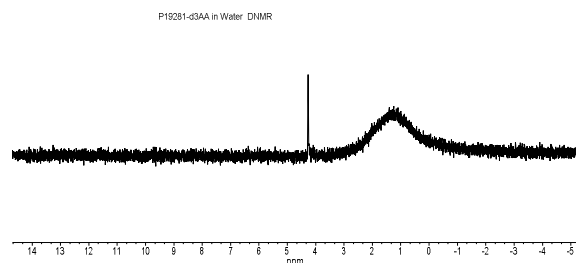


Characterization:

BY GPC, HNMR and D NMR

Solubility:

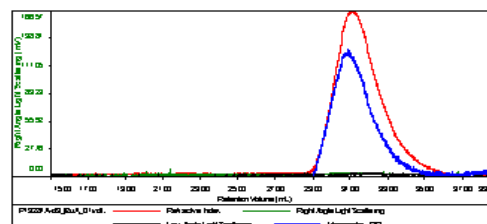
Polymer is soluble in methanol, ethanol, and water.



SEC of Sample: in ester form

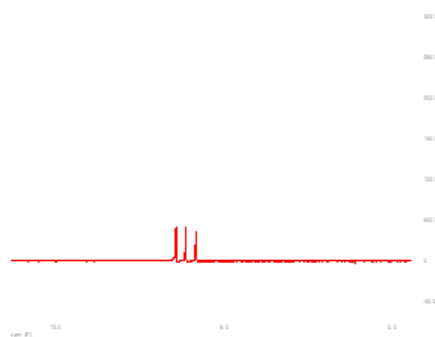
Sample ID: P19281A-d3 tBuA

Concentration (mg/mL)	1.0122
Sample conc (mg)	0.100
Method File	PS80-KApri29x2015-0000.ucm
Column Set	3x PL 110-600
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19281A-d3 tBuA	6,800	7,500	7,300	1.10	0.510

D NMR of the d3 tert butyl acrylate monomer



HNMR of the polymer to calculate its Dp using terminal protons from its initiator.

