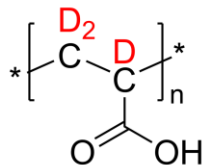


Sample Name: Deuterated Poly (acrylic acid-d₃)
From d₃ tert. butyl acrylate

Sample #: P43800B-d3PAA

Structure:



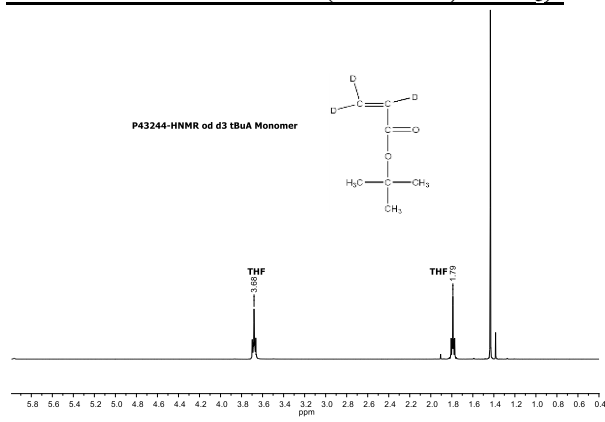
Composition:

Mn x 10 ³	PDI
2.5	1.35

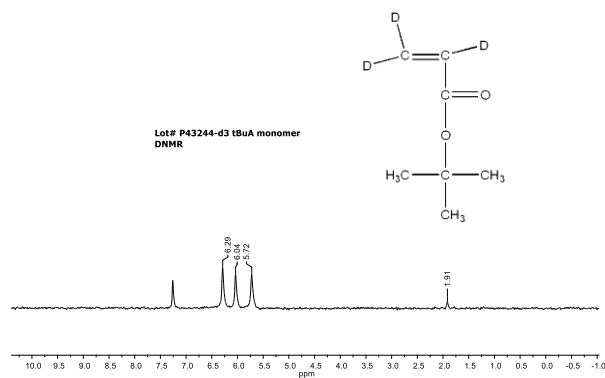
Synthesis Procedure:

Poly (d₃ acrylic acid) is obtained by radical polymerization d₃ tert.butyl acrylate monomer. Poly d₃tBuA was converted to poly acrylic acid -d₃.

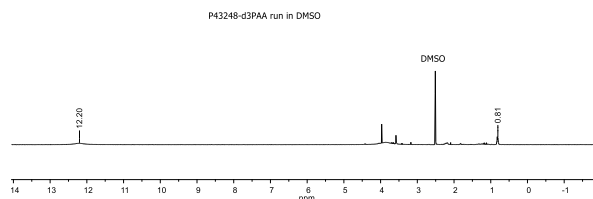
¹H NMR of d₃ Monomer (500 MHz, CDCl₃):



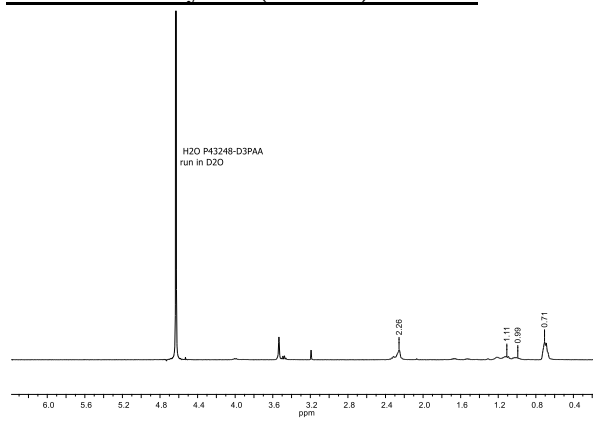
²H NMR of d₃ Monomer (500 MHz, CDCl₃):



H NMR of Polymer (d3PAA) in DMSO:



H NMR of Polymer (d3PAA) in D₂O:



SEC elugram of the Poly d3tBuA in THF:

