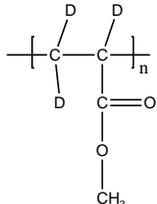


Sample Name:

Deuterated Poly(methyl acrylate-d3)

Sample #: P42333A-d3MA

Structure:



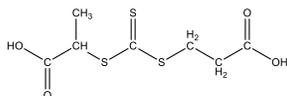
Composition:

Mn x 10 ³	PDI
10.0	1.02

Synthesis:

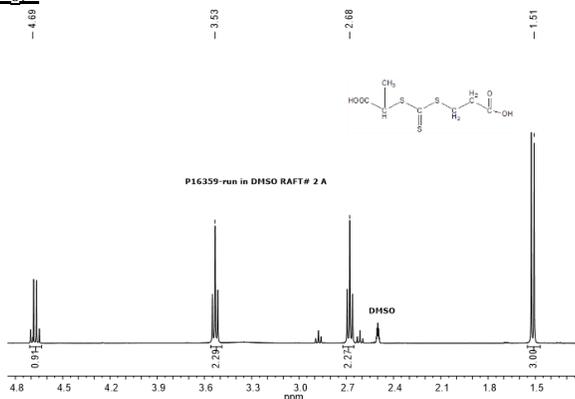
The polymer was synthesized by RAFT polymerization process using following RAFT reagent

Structure:



Chemical Formula: C₇H₁₀O₄S₂
Molecular Weight: 254.3

¹H NMR spectrum of RAFT (500 MHz, DMSO-d₆):



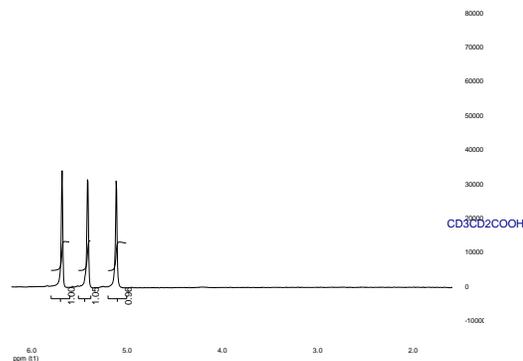
Characterization:

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

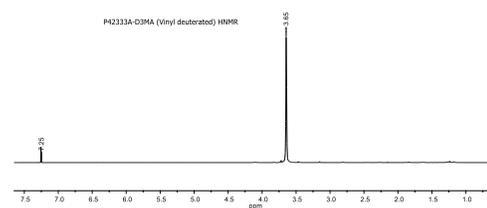
Solubility:

Deuterated Poly (methyl acrylate) is soluble in THF, CHCl₃ and Toluene.

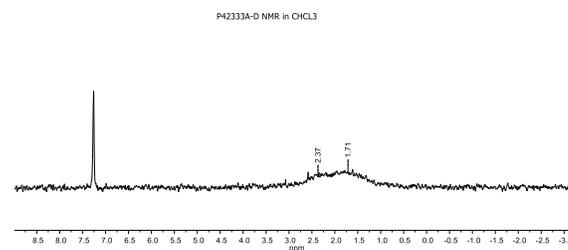
D NMR spectrum of the monomer:



¹H NMR spectrum of polymer (500 MHz, CdCl₃):

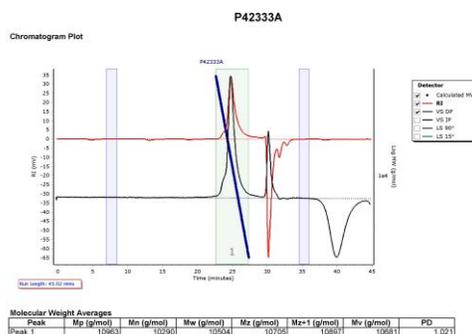


²H NMR spectrum of polymer (500 MHz, CHCl₃):



SEC elugram of the Sample:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	10663	10290	10504	10725	10897	10681	1.021