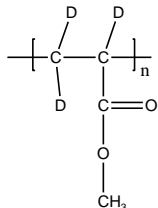


Sample Name:

**Deuterated Poly(methyl acrylate-d3)**

Sample #: **P42333A-d3MA**

**Structure:**



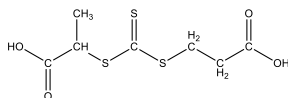
**Composition:**

Mn x 10 <sup>3</sup>	PDI
10.0	1.02

**Synthesis:**

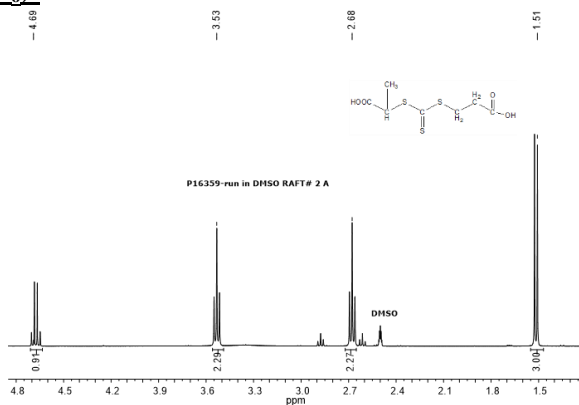
The polymer was synthesized by RAFT polymerization process using following RAFT reagent

**Structure:**



Chemical Formula: C<sub>7</sub>H<sub>6</sub>O<sub>4</sub>S<sub>2</sub>  
Molecular Weight: 254.3

**<sup>1</sup>H NMR spectrum of RAFT (500 MHz, DMSO-d<sub>6</sub>):**



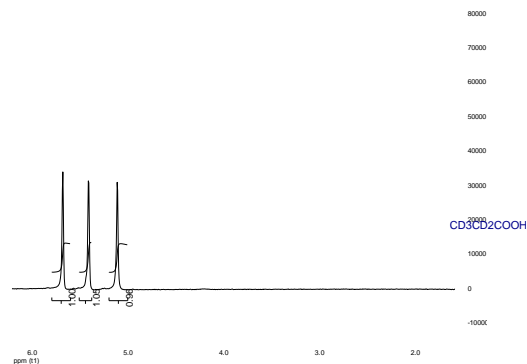
**Characterization:**

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

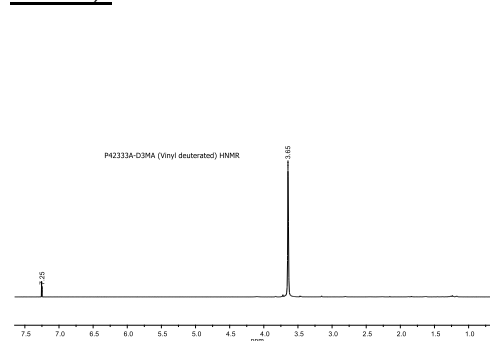
**Solubility:**

Deuterated Poly (methyl acrylate) is soluble in THF, CHCl<sub>3</sub> and Toluene.

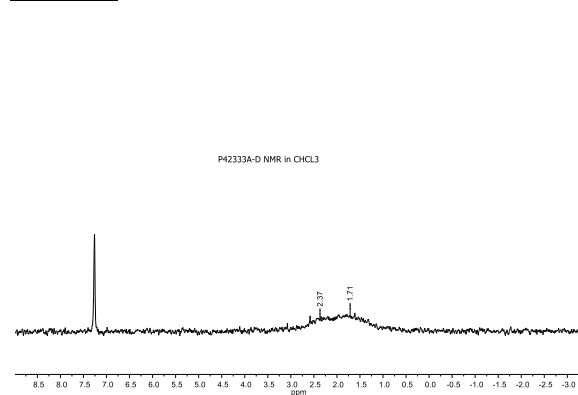
**D NMR spectrum of the monomer:**



**<sup>1</sup>H NMR spectrum of polymer (500 MHz, CdCl<sub>3</sub>):**



**<sup>2</sup>H NMR spectrum of polymer (500 MHz, CHCl<sub>3</sub>):**



**SEC elugram of the Sample:**

Agilent GPC/SEC Software

