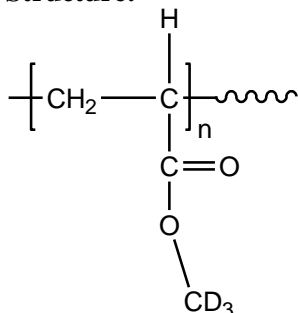


Sample Name: Deuterated Poly(methylacrylate)
Ester group deuterated

Sample #: P42325-d3MA

Structure:



Composition:

$M_n \times 10^3$	PDI
5.5	1.2

Synthesis:

The polymer was synthesized by RAFT polymerization process.

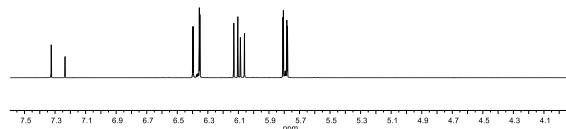
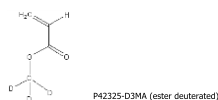
Characterization:

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

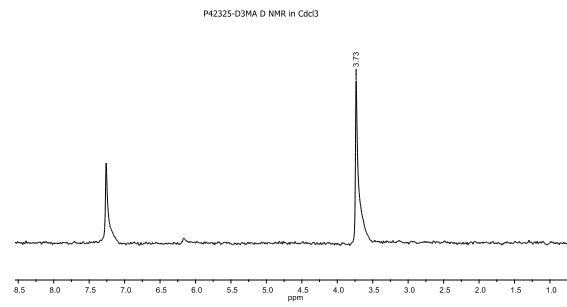
Solubility:

Deuterated Poly(methyl acrylate) is soluble in THF, CHCl_3 , and Toluene.

HNMR spectrum of the monomer:



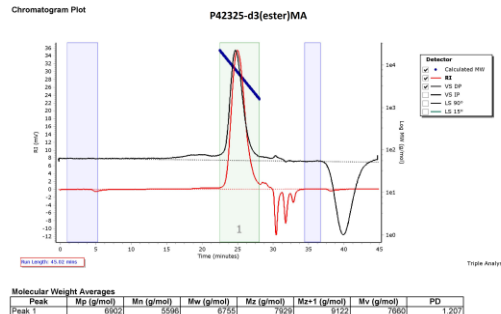
DNMR spectrum of the monomer:



SEC elugram of the Sample:

Agilent GPC/SEC Software

Chromatogram Plot



References:

1. Ph. Teyssie, Ph. Bayard, R. Jerome, **S. K. Varshney**, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
2. R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and **S. K. Varshney**, *Macromolecules*, 1987, 20, 1442-1444.
3. Jerome, R. Forte, **S. K. Varshney**, R. Fayt, and Ph. Teyssie, "The Anionic Polymerization of Alkylacrylates: A Challenge" in the Recent Advances in Mechanistic and Synthetic Aspects of Polymerization: M. Fontanille and A. Guyot Ed., NATO ASI Series C 215, 101 (1987), CA Vol. 108, 12, 094992.
4. Ph. Teyssie, R. Fayt, C. Jacobs, R. Jerome, L. Leemans, and **S. K. Varshney** *Am. Chem. Soc., Polym. Prepr.* 1988, 28, 2, 52-53