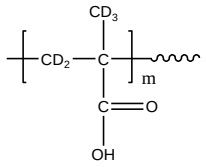
Sample Name:
Deuterated Poly(methacrylic acid) rich in atactic contents

Sample #: **P14546-D5MAA**

Structure:



Composition:

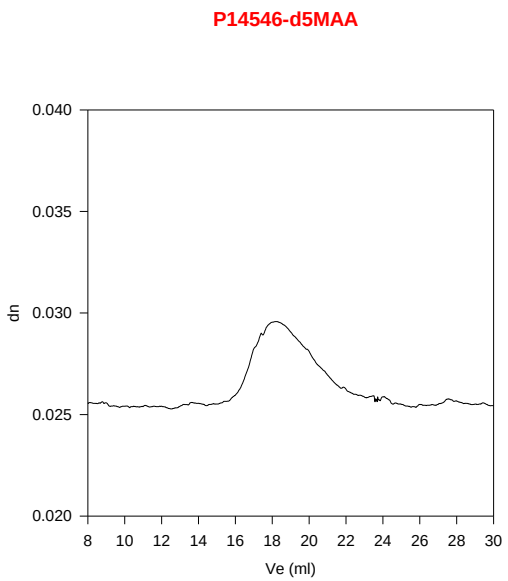
Mn x 10^3	PDI
20.0	3.5

Synthesis Procedure:
Deuterated Poly(methacrylic) is synthesized by RAFT process using d5 MAA monomer.

Characterization:
The molecular weight and polydispersity index (PDI) of deuterated Poly(methacrylic) are obtained by size exclusion chromatography in DMF at 60 oC.

Solubility: Polymer is soluble in methanol, ethanol. It takes tome to solubilized by stirring over night.

SEC of the polymer (poly tert.butyl methacrylate)



Size Exclusion Chromatography of deuterated d5 MAA in DMF at 60 oC.

M_n=20,000, M_w=70,000, PI=3.5

Refrences:

1. **S. K. Varshney**, Z. Gao, Xing Fu Zhong, A. Eisenberg, “Effect of Lithium Chloride on the “Living” Polymerization of tert-Butylmethacrylate and Polymer Microstructure Using Monofunctional Initiators” Macromolecules, 1994, 27, 1076.