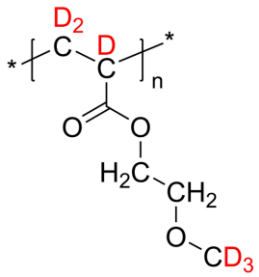
Sample Name:
**Deuterated Poly(2-methoxyethyl acrylate-d6)**
**or**
**Deuterated Poly(d6-Methoxy ethylene glycol-acrylate)**

Sample #: **P43833-d6MeOEA**

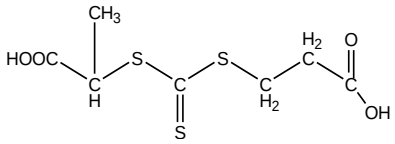
**Structure:**




**Composition:**

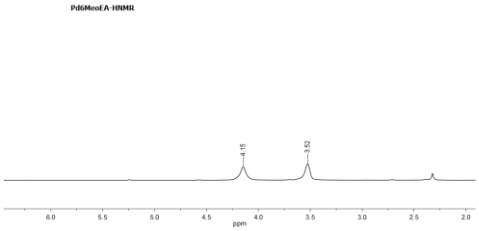
| Mn x $10^3$ | PDI |
|---|---|
| 8.5 | 1.3 |

**Synthesis Procedure:**
The polymer was synthesized by RAFT polymerization process using following Reagent.

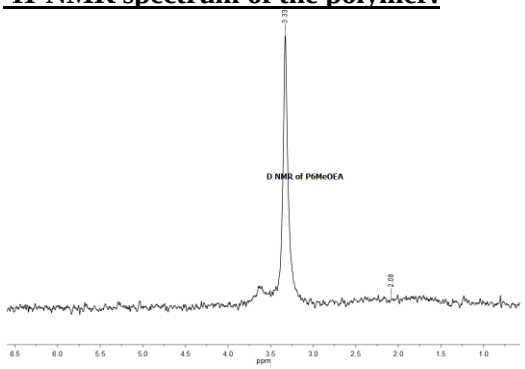



**Characterization:**
The product was characterized by size exclusion chromatography (SEC) and $^1$H NMR and DNMR data analysis.

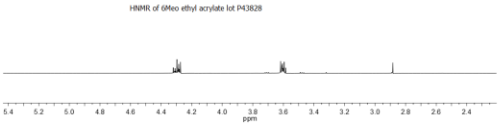
**$^1$H-NMR spectrum of the polymer:**



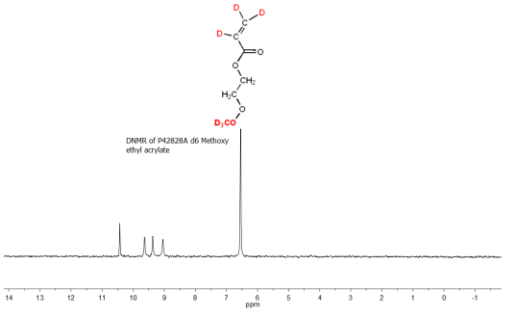

**$^2$H-NMR spectrum of the polymer:**



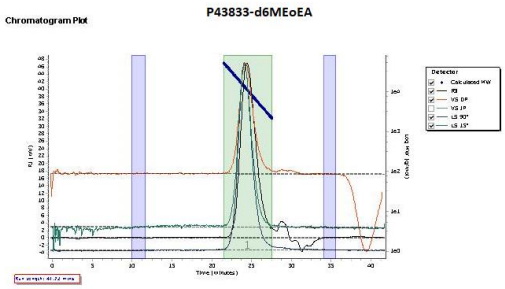

**HNMR of d6- Methoxy Ethyl acrylate Monomer:**




**D-NMR spectrum of the monomer:**




**SEC elugram of Homopolymer:**




Molecular Weight Averages

| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|---|---|---|---|---|---|---|---|
| Peak 1 | 11345 | 8529 | 11010 | 13573 | 16239 | 12973 | 1.291 |