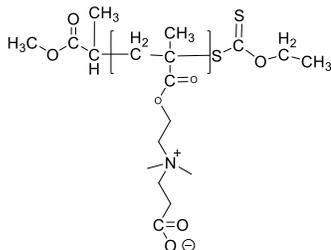


Sample Name:  
**Poly(carboxybetaine methacrylate)**  
*(CBMA) based on (N,N-dimethylaminoethyl methacrylate)*

Sample #: **P43508E-CBMA**

**Structure:**

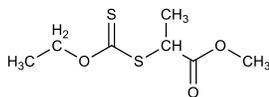


**Composition:**

|                   |     |
|-------------------|-----|
| $M_n \times 10^3$ | PDI |
| 0.8               | 1.1 |

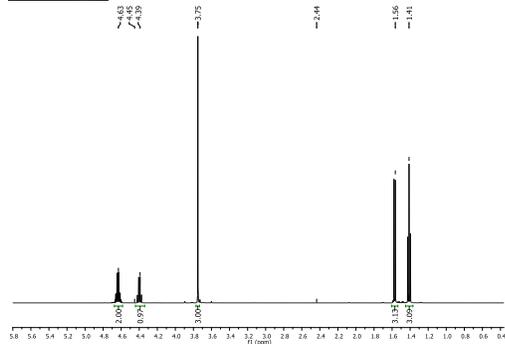
**Synthesis Procedure:**

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



Chemical Formula:  $C_7H_{12}O_3S_2$   
Molecular Weight: 208.3

**$^1H$  NMR spectrum of RAFT (400 MHz,  $CDCl_3$ ):**



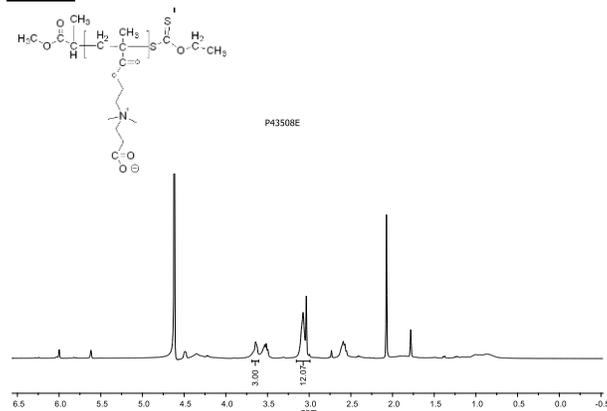
**Characterization:**

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

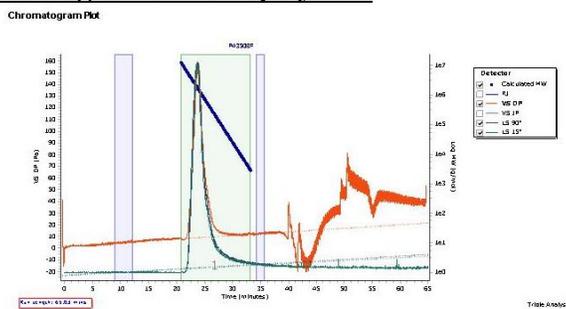
**Solubility:**

Polymer is soluble in water.

**HNMR spectrum of the polymer run in D2O:**



**SEC elugram of Homopolymer:**



Mn of the polymer calculated by its HNMR, and Mw/Mn by GPC carried out in aqueous system.