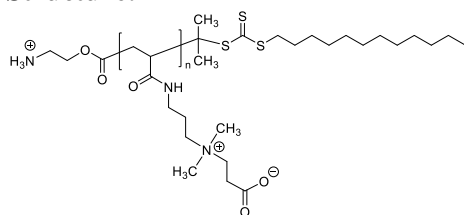


Sample Name: Dual Functional Zwitterionic Poly (carboxybetaine acrylamide)

Sample # P41780-CBAMD

Structure:



Composition:

| | |
|-------------------|-----|
| $M_n \times 10^3$ | PDI |
| 8.5 | 1.3 |

| |
|--------------|
| Dp: 38 units |
|--------------|

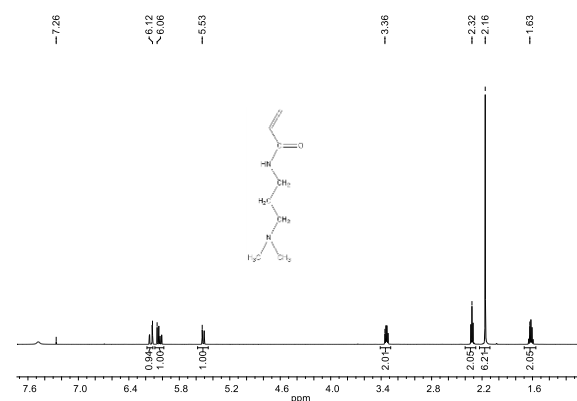
Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

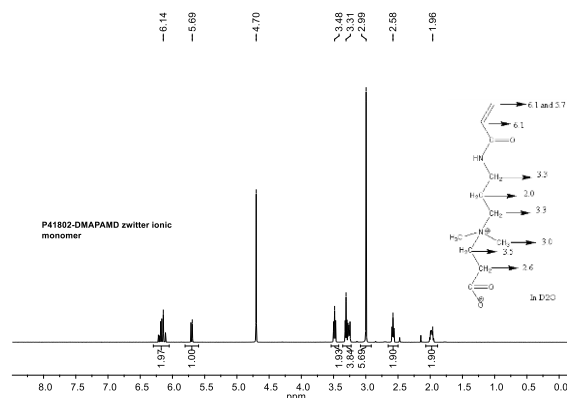
Synthesis of CBAMD monomer:

3-acryloxyamino-propyl-2carboxy ethyl dimethyl amonium (CBAMD)

N(3-dimethylamino) propyl acrylamide



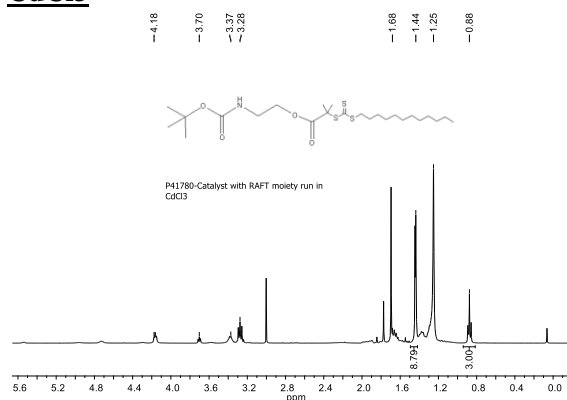
After reaction N(3-dimethylamino) propyl acrylamide with Priopiolactone:



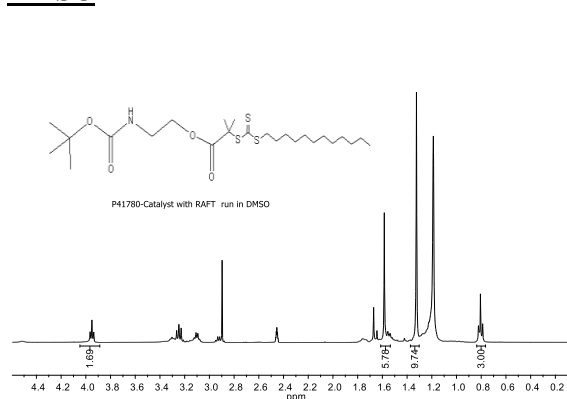
Characterization:

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

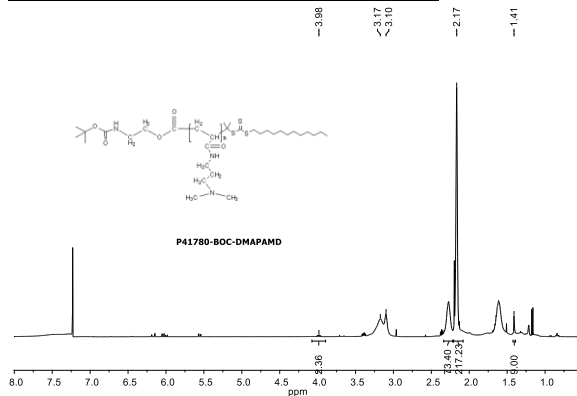
H NMR spectrum of the catalyst Lot# P41780 in CdCl3



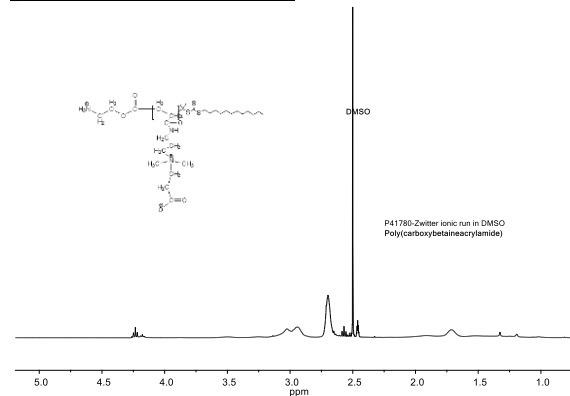
H NMR spectrum of the catalyst Lot# P41780 in DMSO



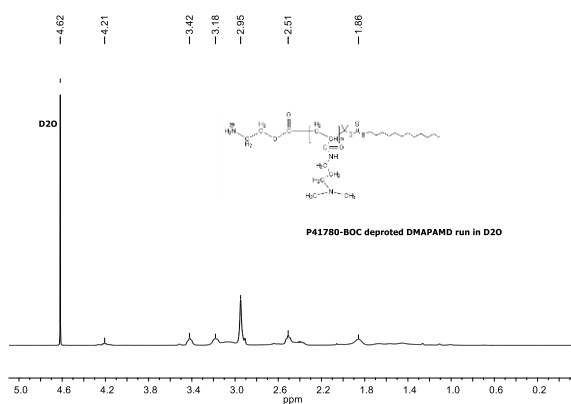
H NMR spectrum of the BOC amino Protected POLY DMAPAMD run in CdCl3:



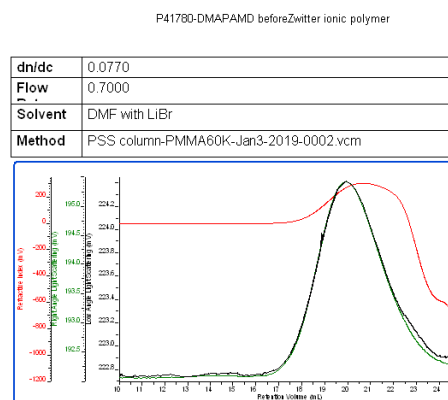
H NMR spectrum of the Zwitter ionic final polymer run in DMSO



H NMR spectrum of the BOC amino deprotected POLY DMAPAMD in D2O:



SEC elugram of Homopolymer:



H NMR spectrum of the Zwitter ionic final polymer run in D2O

