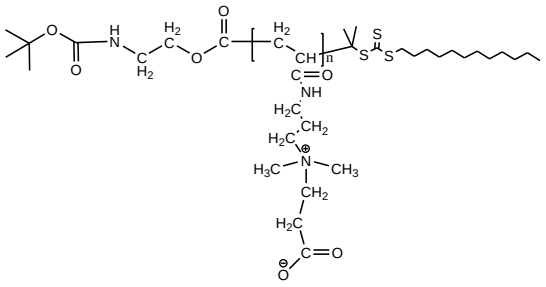
Sample Name:
BOC amino end functionalized Dual Functional Zwitterionic Poly (carboxybetaine acrylamide)

Sample # **P41780B-BOC-NH-CBAMD**

Structure:



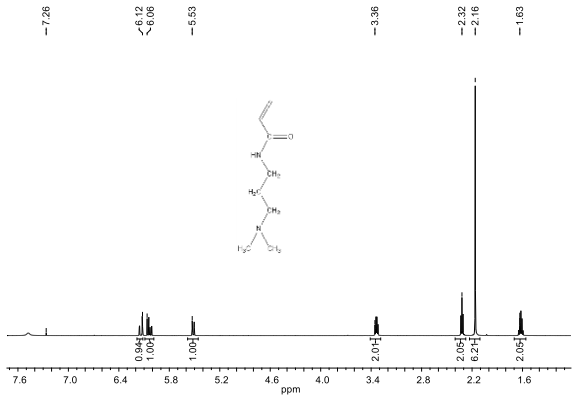
Composition:

Mn × 10^3	PDI
8.5	1.3

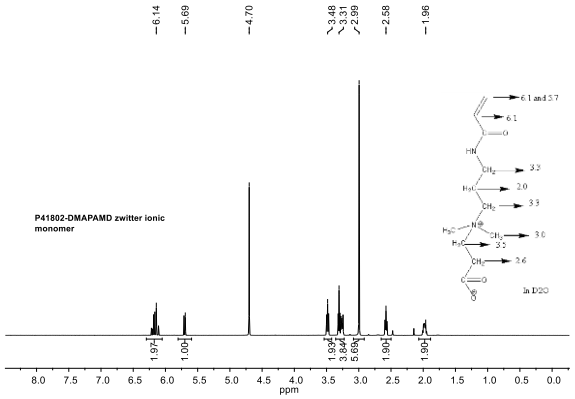
Dp: 38 units

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

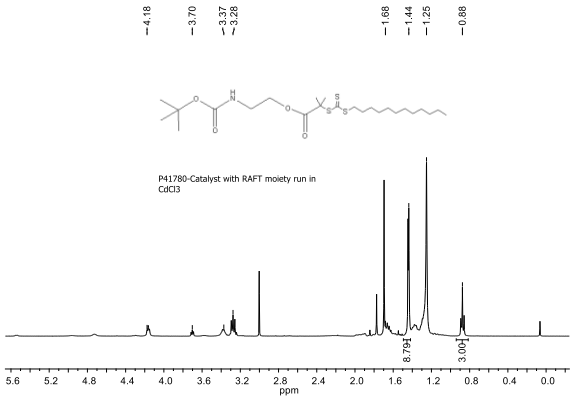


After reaction N(3-dimethylamino) propyl acrylamide with Priopiolactone:

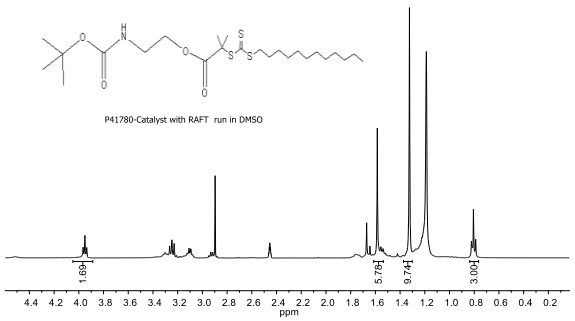


Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR.

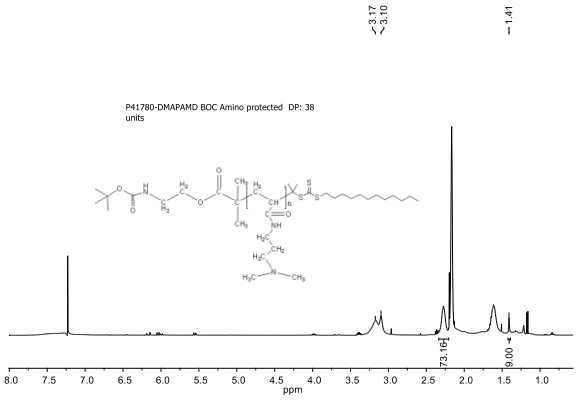
H NMR spectrum of the catalyst Lot# P41680 in CdCl3



H NMR spectrum of the catalyst Lot# P41680 in DMSO



H NMR spectrum of the BOC amino Protected PDMAPAMD in CdCl3:



SEC elugram of Homopolymer:

P41780-DMAPAMD beforeZwitter ionic polymer

dn/dc	0.0770
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm