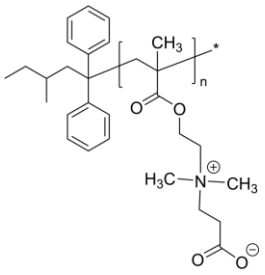
Sample Name:
Poly(carboxybetaine methacrylate)
(CBMA)based on (N,N-dimethylaminoethyl methacrylate)

Sample #: **P43507-CBMA**

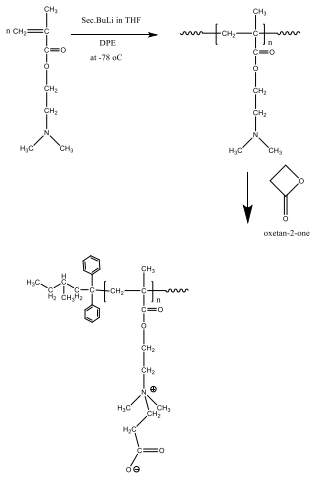
Structure:



Composition:

Mn × 10^3	PDI
10.0	1.8

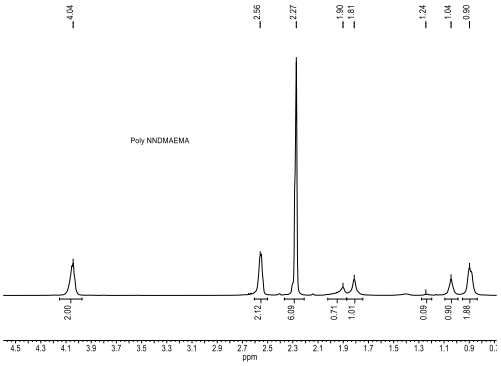
Synthesis Procedure:
The polymer was synthesized by living anionic polymerization of dimethylaminoethyl methacrylate. The following reaction scheme shows how the product was prepared:



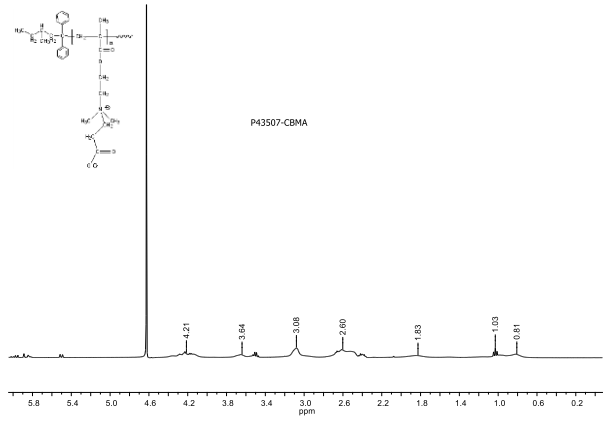
Characterization:
The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography in aqueous system

Solubility:
Polymer is soluble in water.

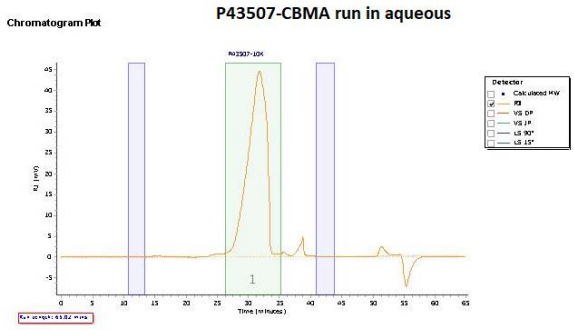
HNMR spectrum of NN-Dimethylaminoethyl methacrylate:



HNMR spectrum of the Sample:



SEC 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	9474	10119	18113	37576	69880	27917	1.79