

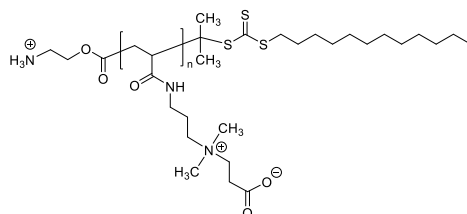
Product Profile

Identification

Sample Name: Dual Functional Zwitterionic Poly (carboxybetaine acrylamide)

Sample # P45035-CBAMD

Structure:



Composition:

$M_n \times 10^3$	PDI
4.0	1.3
Dp: 18 units	

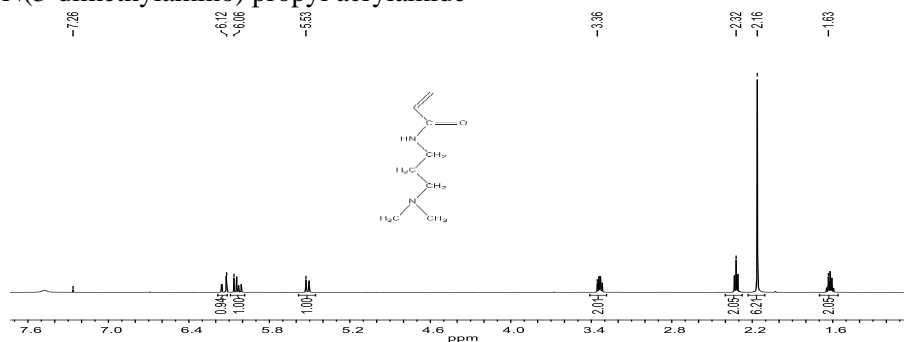
Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

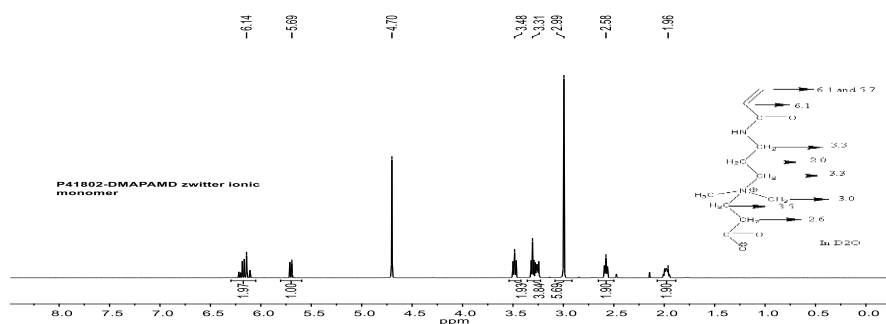
Synthesis of CBAMD monomer:

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

N(3-dimethylamino) propyl acrylamide



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



Characterization:

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

CCCCCCCCCCCCCCCC(=O)SSSC(=O)OCCNC(=O)OC(C)(C)C

8.15
 6.41
 4.12
 3.15
 1.97
 1.26
 0.88

1.15
 1.75
 2.16
 6.24
 9.00
 17.86
 2.91

[illegible]

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