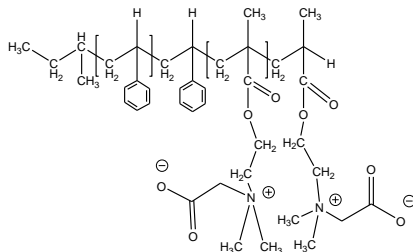


Sample Name: Zwitterionic block copolymer of Poly (styrene-b-N, N-dimethyl amino ethyl methacrylate) with bromoacetic acid

Sample #: P41673Q-SDMAEMAZ

Structure:



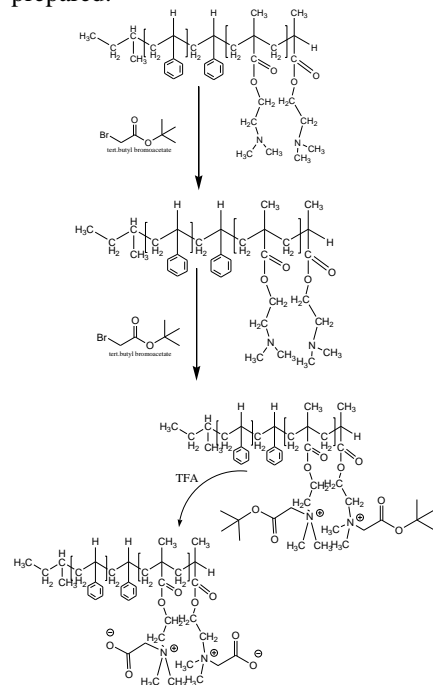
Composition:

Mn x 10 ³ S-b-DMAEMAZ	Mw/Mn (PDI)
11.5-b-17.0	1.02
DP of each block: 110-b-80	

Synthesis Procedure:

Poly (styrene-b-N,N-dimethyl amino ethyl methacrylate) is prepared by anionic polymerization process.

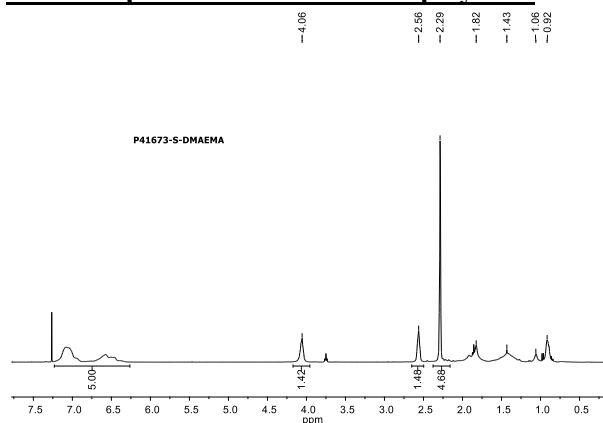
The following reaction scheme shows how the product was prepared:



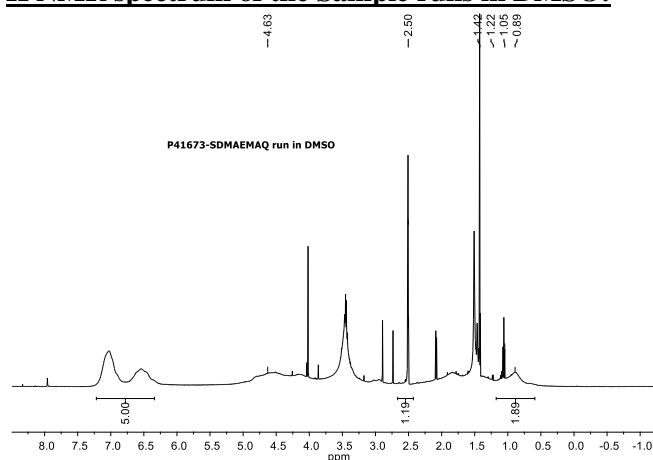
Characterization:

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

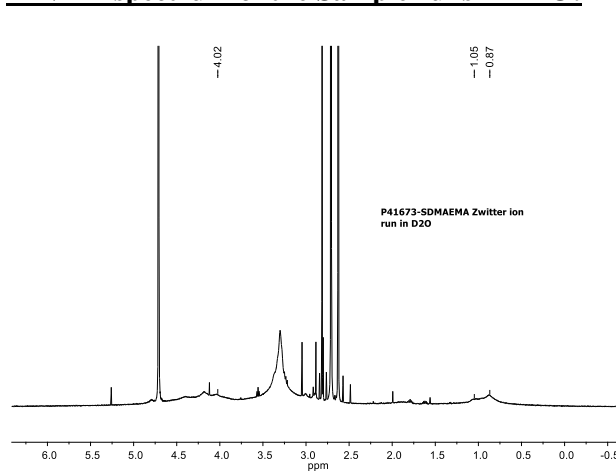
H NMR spectrum of the block copolymer:



H NMR spectrum of the Sample runs in DMSO:

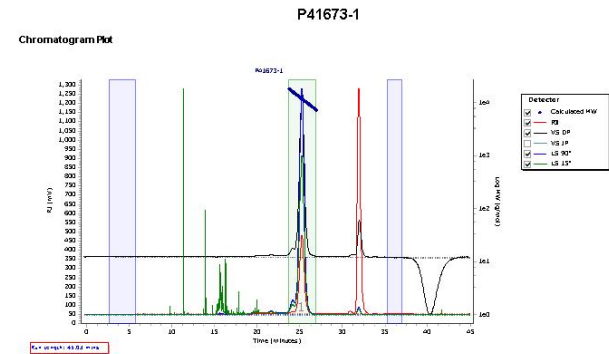


H NMR spectrum of the Sample runs in D2O:



SEC profile of the S block:

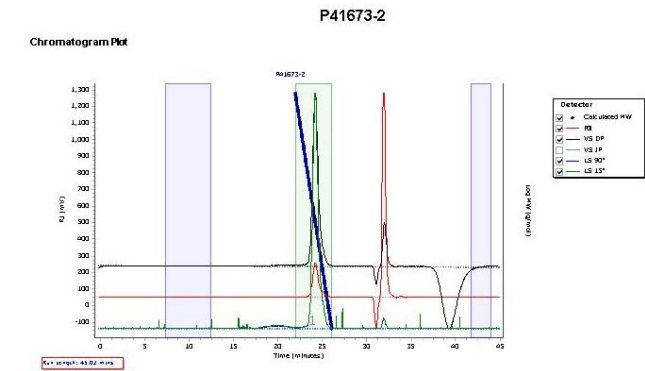
Agilent GPC/SEC Software



Molecular Weight Averages							PD
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	
Peak 1	11739	11787	11898	12020	12151	11982	1.01

SEC profile of the block copolymer:

Agilent GPC/SEC Software



Molecular Weight Averages							PD
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	
Peak 1	24854	23867	24159	24439	24711	24448	1.012