

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

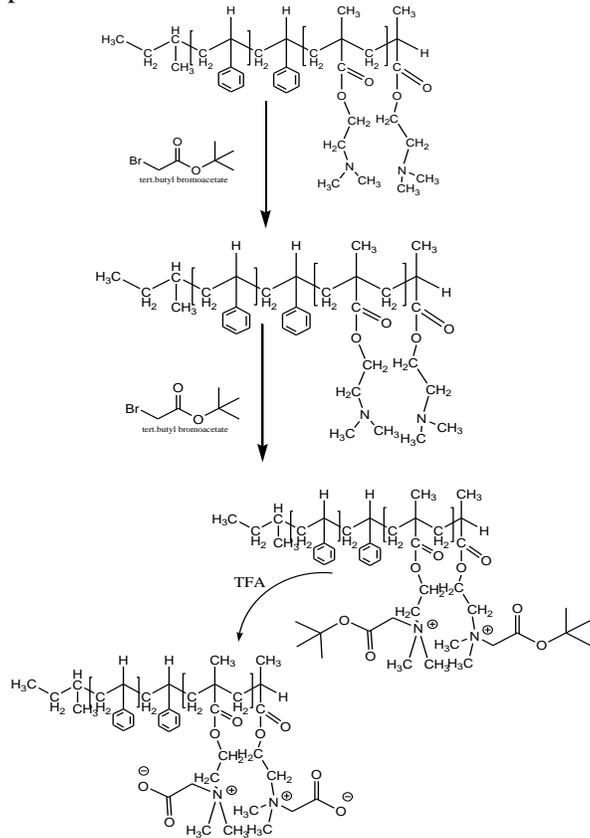
Sample #: P41675Q-SDMAEMAZ

Composition:

Mn x 10 ³ S- <i>b</i> -DMAEMA-Z	Mw/Mn (PDI)
11.5- <i>b</i> -4.5	1.14
T _g for PS block: 80°C	T _g for DMAEMA block: Not distinct
DP of each Block 110- <i>b</i> -21	

Synthesis Procedure:

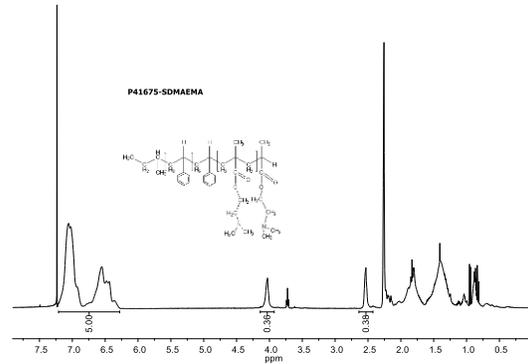
Poly (styrene-*b*-*N,N*-dimethyl amino ethyl methacrylate) is prepared by anionic polymerization process.



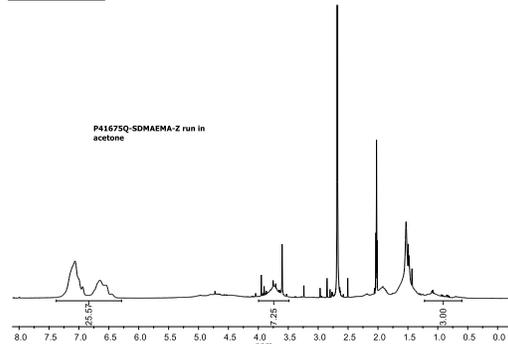
Characterization:

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

¹H NMR spectrum of the SDMAEMA block:

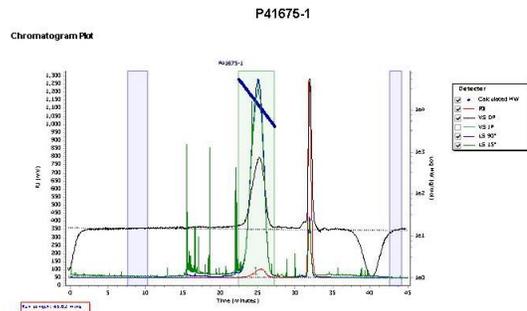


¹H NMR spectrum of SDMAEMAZ sample runs in Aceton:



SEC profile of the S block:

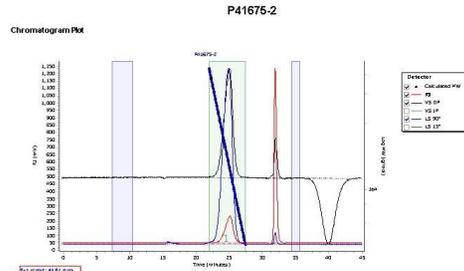
Agilent GPC/SEC Software



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Mw (g/mol)	PDI
Peak 1	10908	11624	13310	15516	18337	15113	1.145

SEC profile of the Sample:

Agilent GPC/SEC Software



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Mw (g/mol)	PDI
Peak 1	14158	14761	16851	19633	23622	18868	1.142