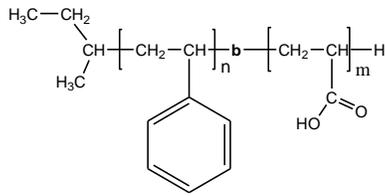


Sample Name: Poly (styrene -b- acrylic acid)
Electronic grade

Sample #: P41763E-SAA

Structure:



Composition:

Mn x 10 ³ PS-b-PAA	PDI
16.0-b-4.0	1.01

Synthesis Procedure:

Poly(styrene-b-acrylic acid) is prepared by living anionic polymerization process.

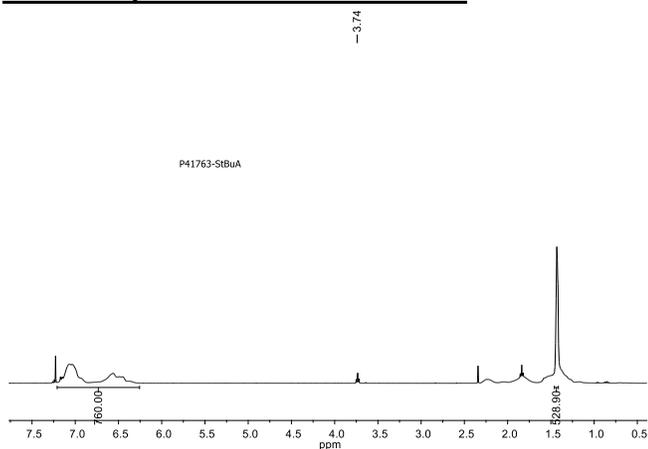
Characterization:

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

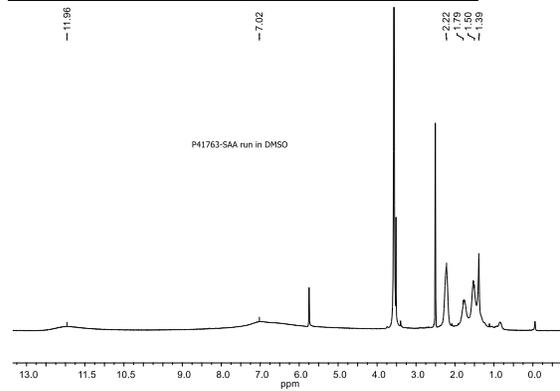
Purification:

The obtained polymer was dissolved in 1-4 dioxane and filter through a membrane 0.5 μ nylon filter. The obtained solution was freeze-dried under reduced pressure.

¹H NMR spectrum of the PS-b-tBuA:



HNMR of the Sample runs in DMSO:

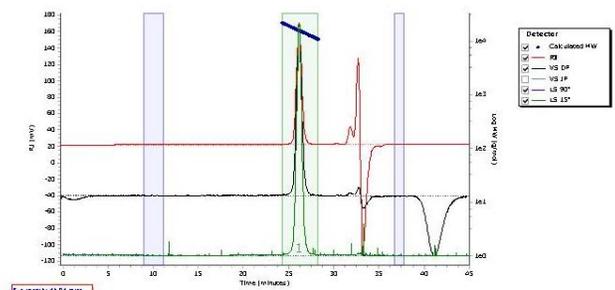


SEC elugram of the PS block:

Agilent GPC/SEC Software

P41763-1

Chromatogram Pkt



Molecular Weight Averages

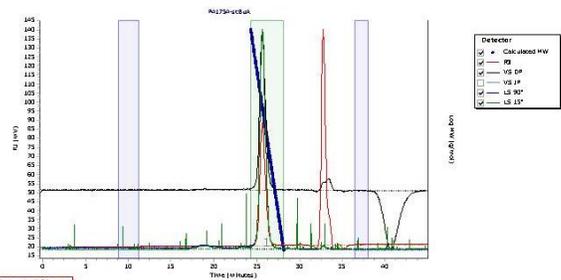
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	15926	15836	15886	15936	15986	15934	1.003

SEC elugram of the PS-tBuA Sample:

Agilent GPC/SEC Software

P41764-stBuA

Chromatogram Pkt



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	22684	22298	22434	22563	22688	22571	1.005

Processing Parameters