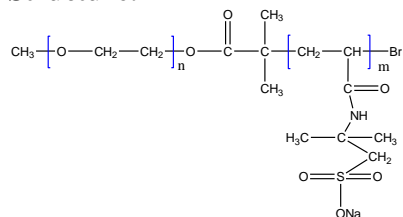


Sample Name: Poly(ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

Sample #: P41400B-EOAMPSNa

Structure:

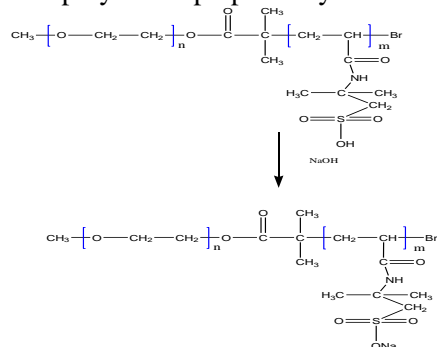


Composition:

$M_n \times 10^3$ PEO-b-PAMPSNa	PDI
10.5-b-10.0	1.35
Dp: 238-b-44	

Synthesis Procedure:

The polymer is prepared by controlled radical process.

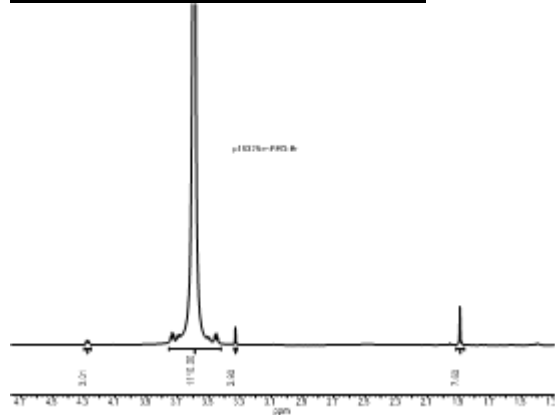


Characterization:

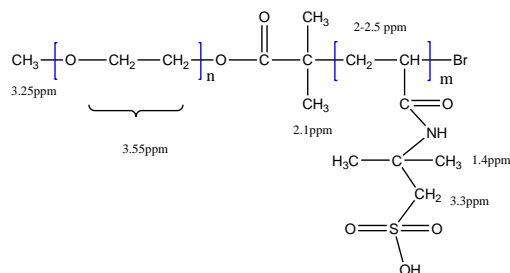
The polymer was characterized by SEC in aqueous phase using 0.05 M CH₃COOH and CH₃CONa in H₂O and by HNMR.

Solubility: The polymer is soluble in water.

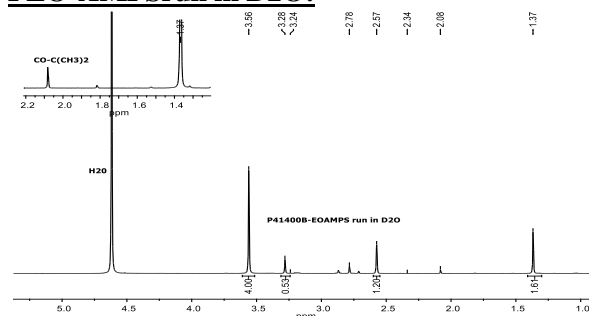
HNMR spectrum of the PEG-Br:



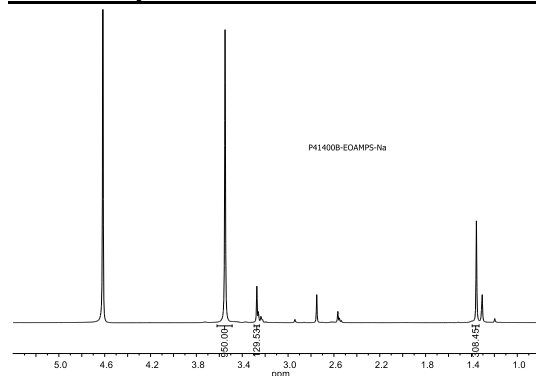
Chemical Shifts in D₂O



H-NMR Spectrum of the block copolymer PEO-AMPSrun in D₂O:

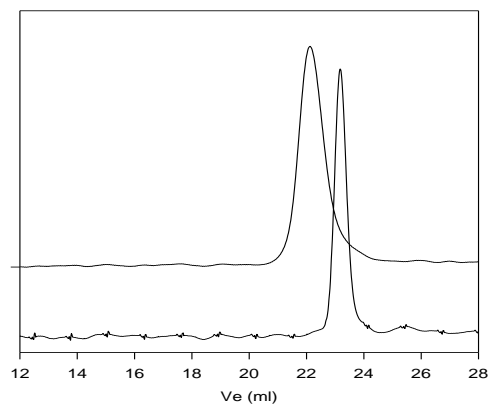


H-NMR Spectrum of EO-b-AMPS-Na run in D₂O:



SEC of the block copolymer:

P41400B-EOAMPS-Na



Size exclusion chromatograph of poly(ethylene glycol):

$M_n=10,500$, $M_w=11,300$, PDI=1.08

EO-b-AMPS-Na: M_n 10,500-b-10,000 Mw/Mn 1.35