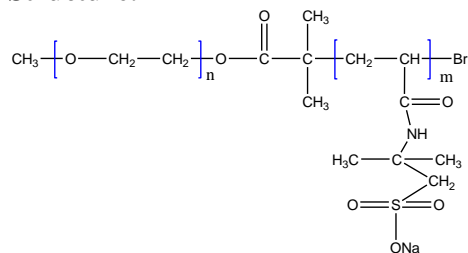


Sample Name: Poly (ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

Sample #: P41400C-EOAMPSNa

Structure:

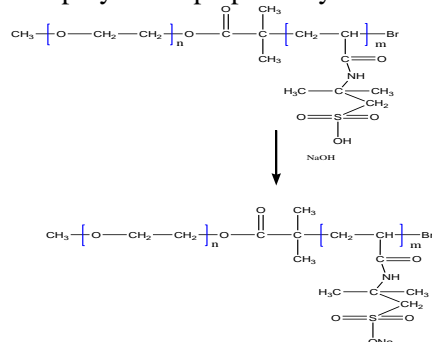


Composition:

Mn × 10 ³ PEO-b-PAMPSNa	PDI
10.5-b-21.0	1.5
Dp: 238-b-91	

Synthesis Procedure:

The polymer is prepared by controlled radical process.

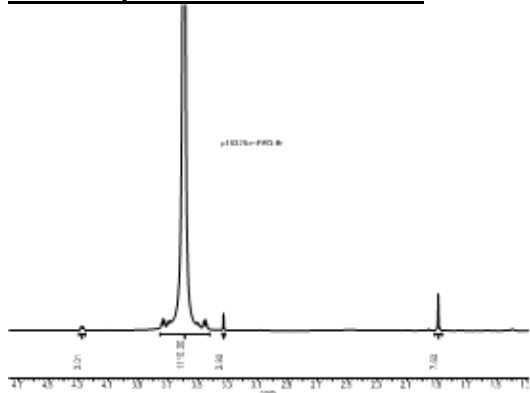


Characterization:

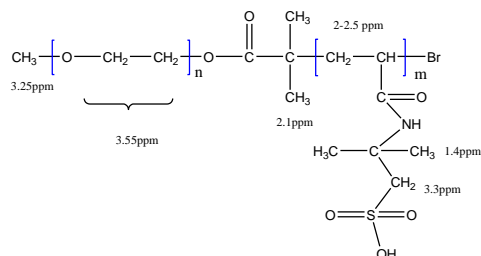
The polymer was characterized by SEC in aqueous phase using 0.05 M CH₃COOH and CH₃CONa in H₂O and by HNMR.

Solubility: The polymer is soluble in water.

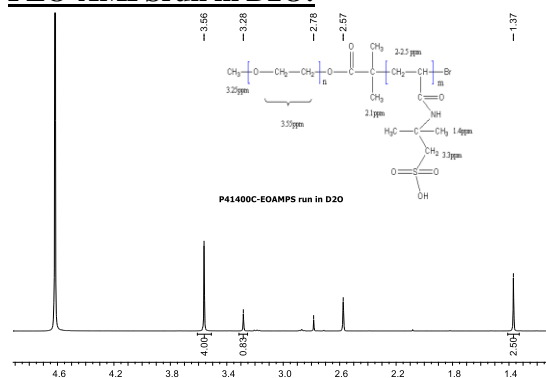
HNMR spectrum of the PEG-Br:



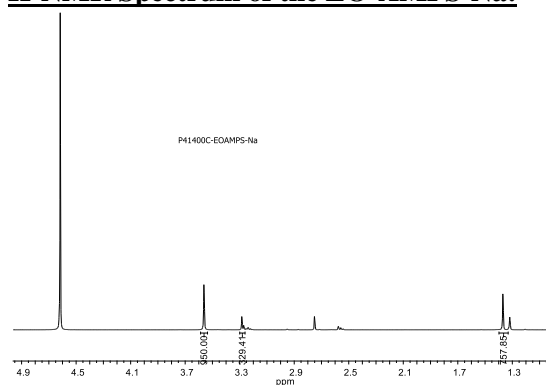
Chemical Shifts in D₂O



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

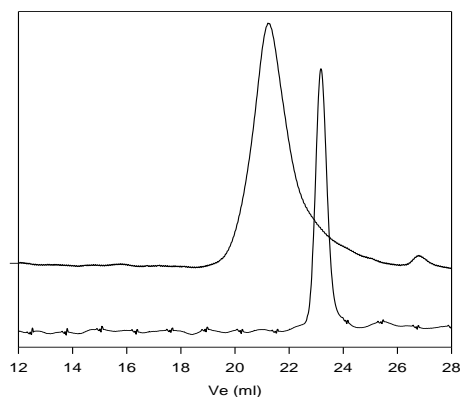


H-NMR Spectrum of the EO-AMPS-Na:



SEC of the block copolymer:

P41400C-EOAMPS



Size exclusion chromatograph of poly(ethylene glycol):

M_n=10,500, M_w=11,300, PDI=1.08
EO-b-AMPS Mn 10,500-b-19,000 Mw/Mn 1.5
EO-AMPS-na: 10,000-b-21,000 Mw/Mn 1.5