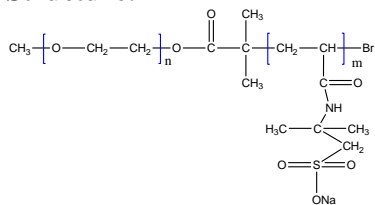


**Sample Name:** Poly(ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

**Sample #:** P41414A-EOAMPSNa

**Structure:**

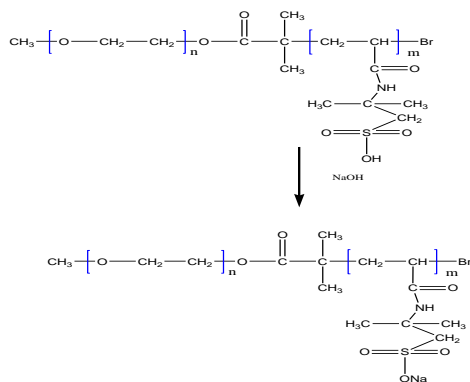


**Composition:**

|                                       |     |
|---------------------------------------|-----|
| Mn × 10 <sup>3</sup><br>PEO-b-PAMPSNa | PDI |
| 9.0-b-51.0                            | 1.5 |
| Dp: 204-b-221                         |     |

**Synthesis Procedure:**

The polymer is prepared by controlled radical process.

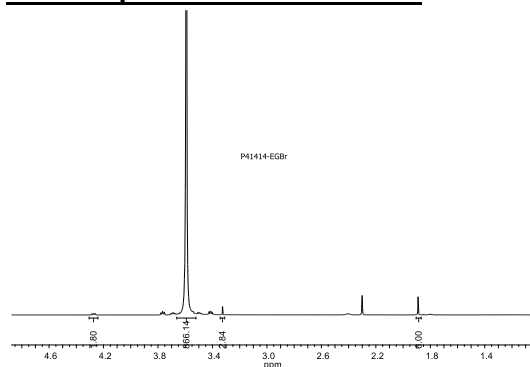


**Characterization:**

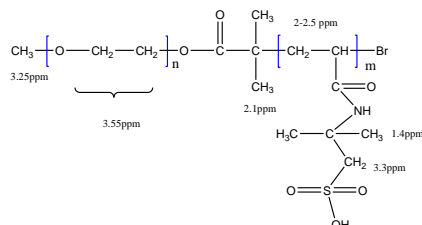
The polymer was characterized by SEC in aqueous phase using 0.05 M CH<sub>3</sub>COOH and CH<sub>3</sub>CONa in H<sub>2</sub>O and by HNMR.

**Solubility:** The polymer is soluble in water.

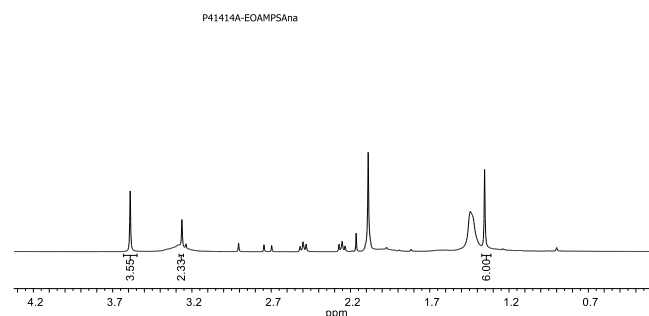
**HNMR spectrum of the PEG-Br:**



Chemical Shifts in D<sub>2</sub>O

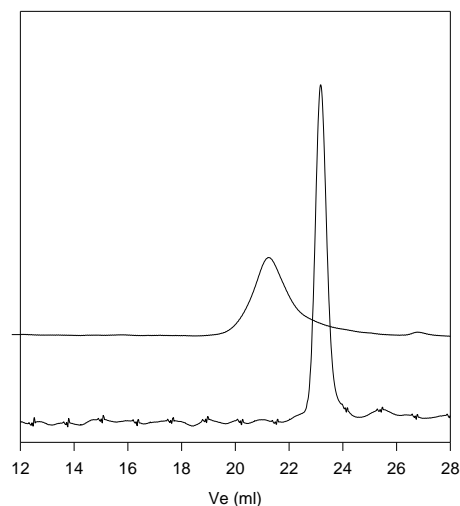


**H-NMR Spectrum of the block copolymer PEO-AMPS-Na run in D<sub>2</sub>O:**



**SEC of the block copolymer:**

**P41414A-EOAMPS Na**



Size exclusion chromatograph of poly(ethylene glycol):

M<sub>n</sub>=9,000, M<sub>w</sub>=9,700, PDI=1.08

EO-AMPS-Na: 9,000-b-51,000 Mw/Mn 1.5