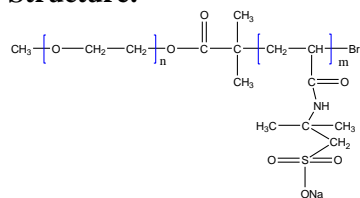


**Sample Name:** Poly(ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

**Sample #:** P41414-EOAMPSNa

**Structure:**

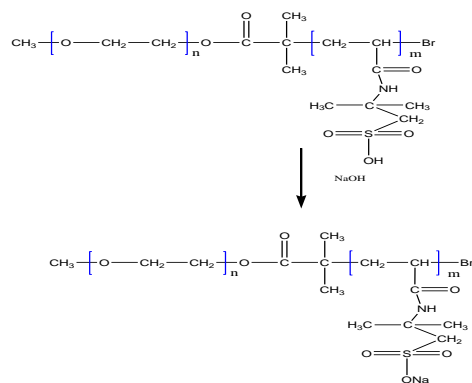


**Composition:**

$M_n \times 10^3$ PEO-b-PAMPSNa	PDI
9.0 -b- 65.0	1.5
Dp: 238-b-282	

**Synthesis Procedure:**

The polymer is prepared by controlled radical polymerization process:

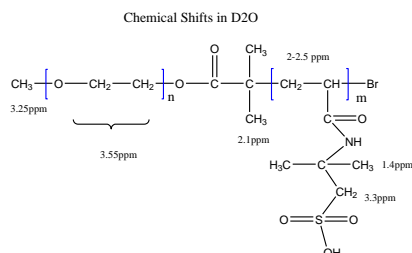
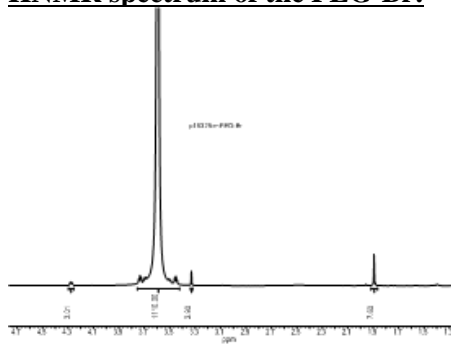


**Characterization:**

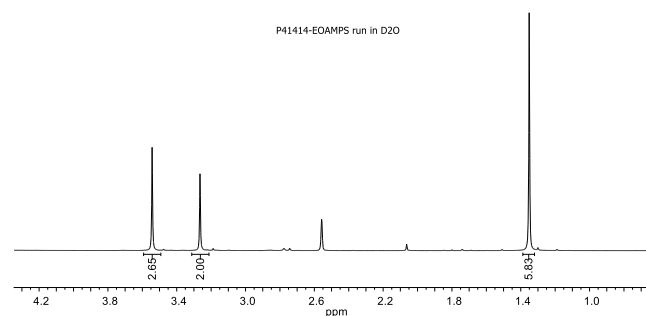
The polymer was characterized by SEC in aqueous phase using 0.05 M CH<sub>3</sub>COOH and CH<sub>3</sub>CONa in H<sub>2</sub>O and by HNMR.

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

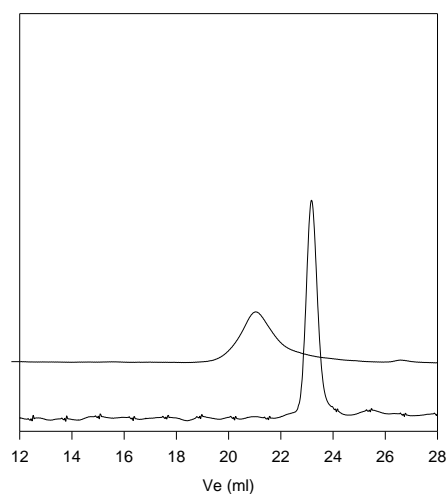
**HNMR spectrum of the PEG-Br:**



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



**SEC of the block copolymer:**  
**P41414-EOAMPS Na**



Size exclusion chromatograph of poly(ethylene glycol):

$M_n=9,000$ ,  $M_w=9,700$ , PDI=1.08

EO-AMPS-Na: 9,000-b-65,000 Mw/Mn 1.5