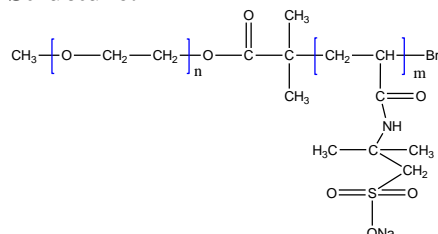


**Sample Name:** Poly(ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

**Sample #:** P41403B-EOAMPSNa

**Structure:**

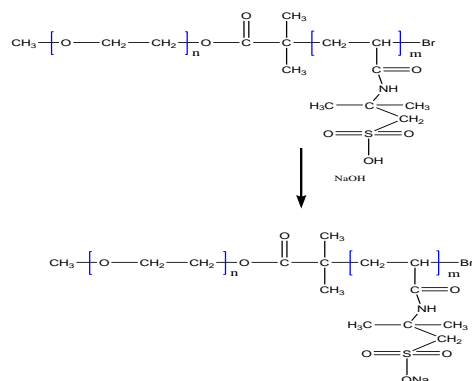


**Composition:**

Mn × 10 <sup>3</sup> PEO-b-PAMPSNa	PDI
10.5-b-55.0	1.5
Dp: 238-b-242	

**Synthesis Procedure:**

The polymer is prepared by controlled radical process.

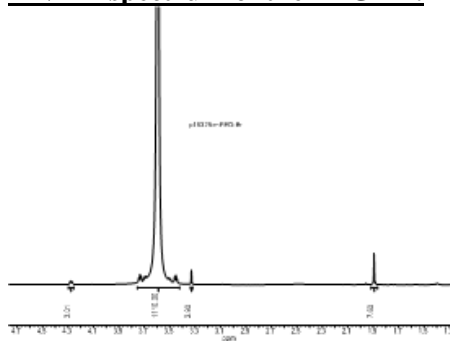


**Characterization:**

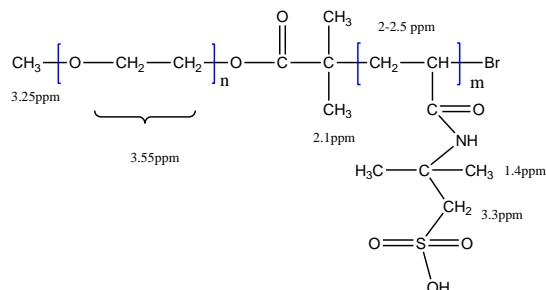
The polymer was characterized by SEC in aqueous phase using 0.05 M CH<sub>3</sub>COOH and CH<sub>3</sub>CONa in H<sub>2</sub>O and by HNMR.

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

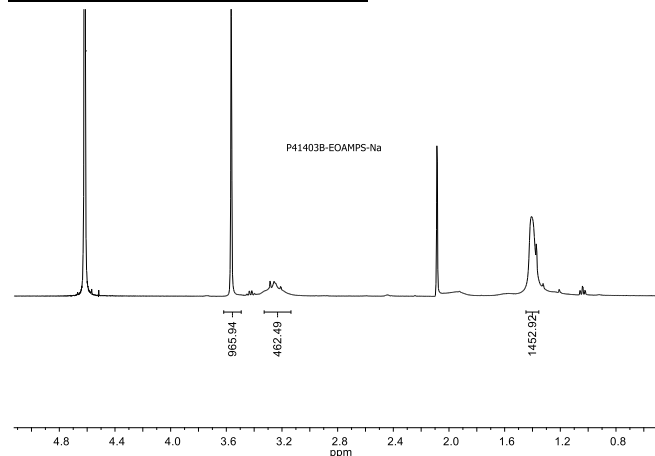
**HNMR spectrum of the PEG-Br:**



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

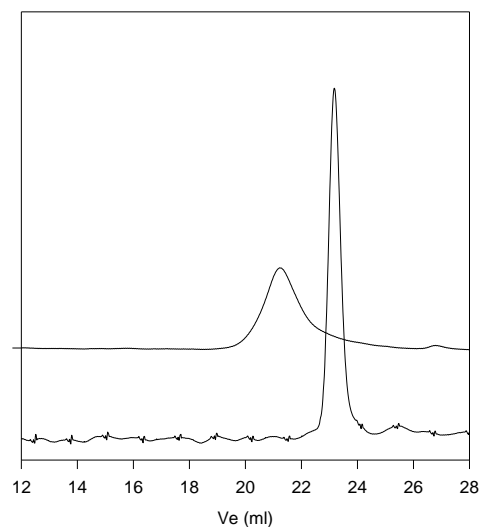


**H-NMR Spectrum of the block copolymer PEO-AMPS-Na run in D<sub>2</sub>O:**



**SEC of the block copolymer:**

**P41403B-EOAMPS**



Size exclusion chromatograph of poly(ethylene glycol):

M<sub>n</sub>=10,500, M<sub>w</sub>=11,300, PDI=1.08

EO-AMPS-Na: 10,500-b-55,000 Mw/Mn 1.5