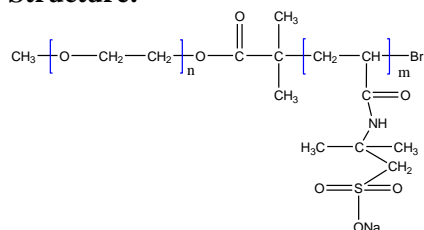


**Sample Name:** Poly(ethylene oxide -b-2(sodium -acrylamido)2-methyl propane sulfonate

**Sample #:** P41400-EOAMPSNa

**Structure:**



**Composition:**

Mn × 10 <sup>3</sup> PEO-b-PAMPS-Na	PDI
10.5-b-3.5	1.15
Dp: 238-b-15	

**Synthesis Procedure:**

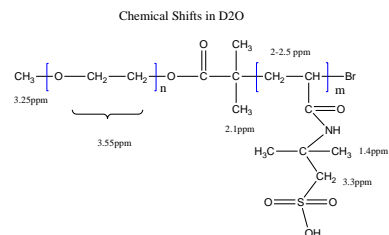
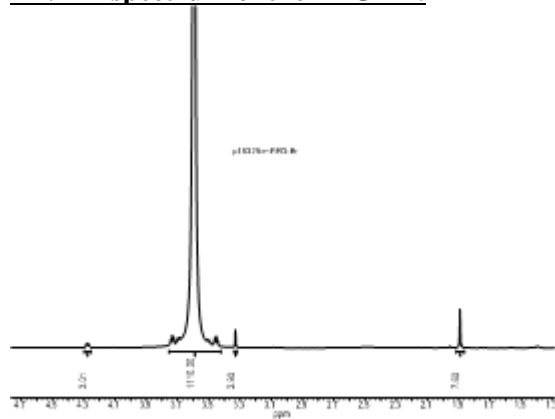
The polymer is prepared by controlled radical process.

**Characterization:**

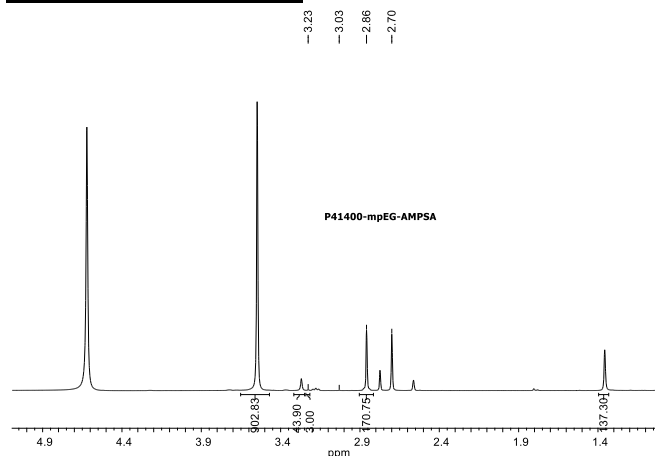
The polymer was characterized by SEC in aqueous phase using 0.05 M CH<sub>3</sub>COOH and CH<sub>3</sub>CONa in H<sub>2</sub>O and by HNMR.

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

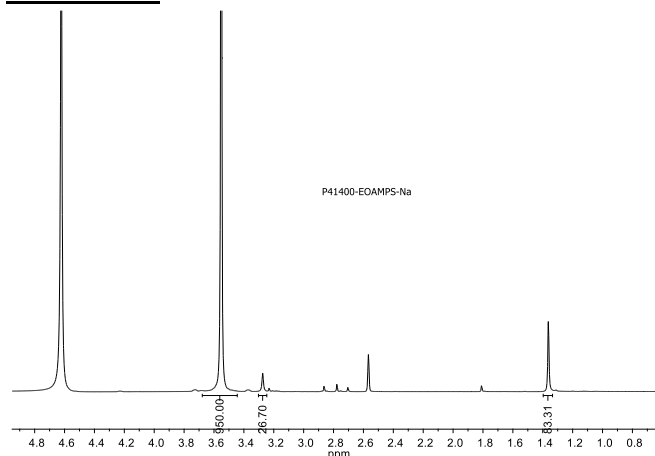
**HNMR spectrum of the PEG-Br:**



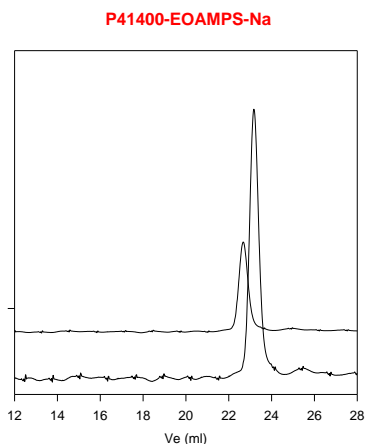
**H-NMR Spectrum of the block copolymer  
PEO-AMPSrun in D<sub>2</sub>O**



**HNMR spectrum of the Sample after neutralization  
with NaOH:**



**SEC of the block copolymer:**



Size exclusion chromatograph of poly(ethylene glycol):

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

EO-b-AMPS

Mn: 10,500-b-3,500 Mw/Mn =1.15