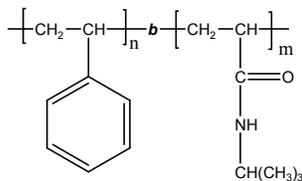


**Sample Name:****Poly(styrene-b-N-isopropyl acrylamide)****Sample #: P14507A-SNIPAM****Structure:****Composition:**

Mn x 10 <sup>3</sup> S-b-NIPAM	Mw/Mn (PDI)
17.1-b-37.1	1.68

**Synthesis Procedure:**

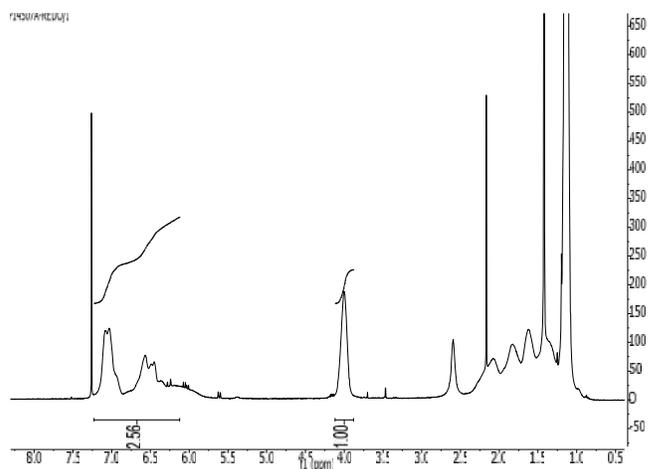
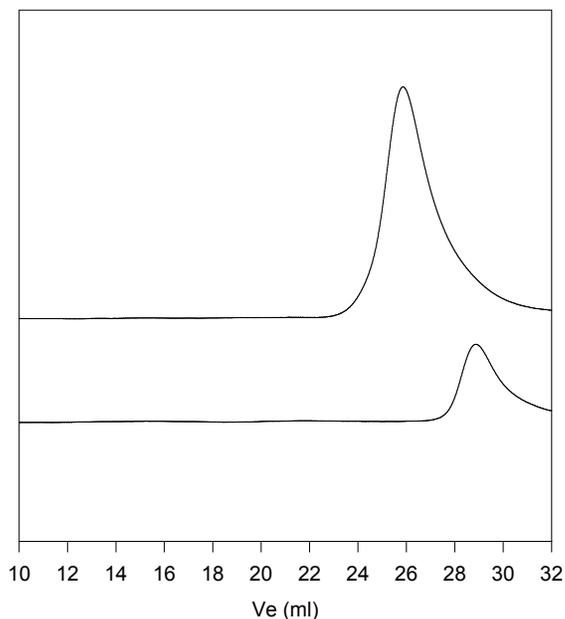
Poly(styrene-b-N-isopropyl acrylamide) is prepared by RAFT polymerization in 1,4-dioxane.

**Characterization:**

The final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy by comparing the peak area of the aromatic protons on styrene between about 6.2-7.2 ppm with the proton of NCH on NIPAM at 4.0 ppm. The PDI of block copolymer is determined by SEC.

**Solubility:**

Poly(styrene-b-N-isopropyl acrylamide) block copolymer is soluble in CHCl<sub>3</sub>, DMF.

**<sup>1</sup>H NMR spectrum of the diblock copolymer****SEC of the diblock copolymer****P14507A-SNIPAM**

Size exclusion chromatography of polystyrene-b-N-isopropylacrylamide)

— Polystyrene, M<sub>n</sub>=17,100, M<sub>w</sub>=24,200, PDI=1.42

— Block Copolymer PS(17,100)-b-NIPAM(37,100), PDI=1.68