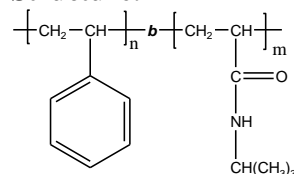


**Sample Name:** Poly (styrene-*b*-N-isopropyl acrylamide)

**Sample #:** P16338-SNIPAM

**Structure:**



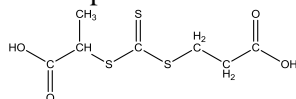
**Composition:**

Mn x 10 <sup>3</sup> S- <i>b</i> -NIPAM	Mw/Mn (PDI)
35.0- <i>b</i> -25.0	1.35

Polystyrene content: 34 mol %

**Synthesis Procedure:**

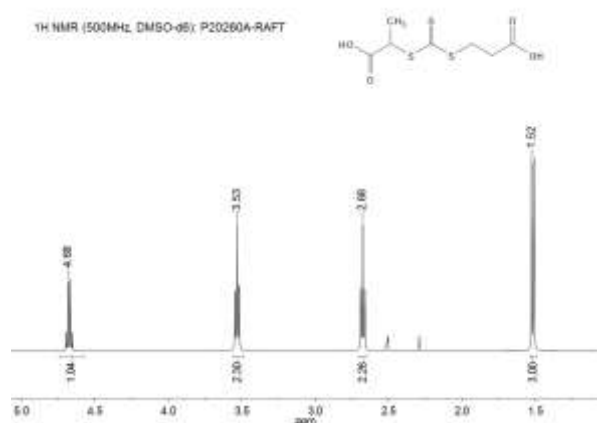
Poly(styrene-*b*-N-isopropyl acrylamide) is prepared by RAFT polymerization process:



Chemical Formula: C<sub>7</sub>H<sub>10</sub>O<sub>4</sub>S<sub>3</sub>  
Molecular Weight: 254.3

Purity:	> 95 %
Storage temperature:	2–8°C

**<sup>1</sup>H NMR spectrum of RAFT macroinitiator (500 MHz, DMSO-*d*<sub>6</sub>):**



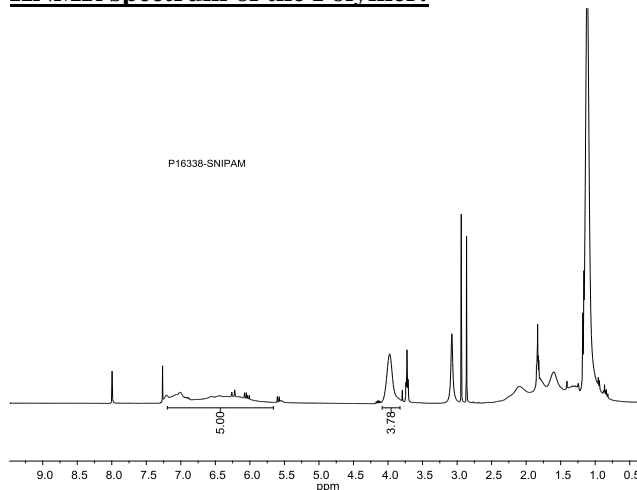
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**Solubility:**

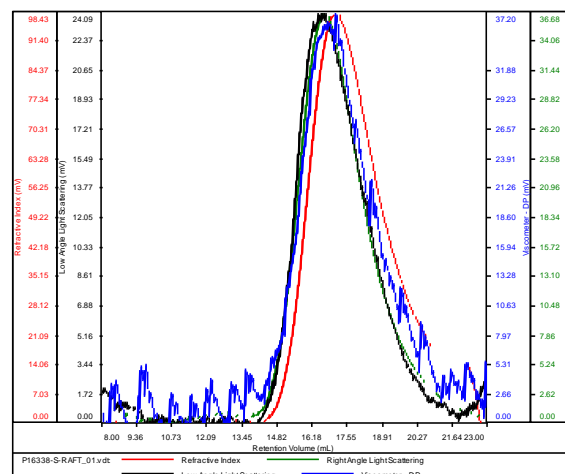
Poly(styrene-*b*-N-isopropyl acrylamide) block copolymer is soluble in DMF, CHCl<sub>3</sub>.

**HNMR spectrum of the Polymer:**



**SEC elugram of PS-RAFT Macroinitiator:**  
P16338-S-RAFT

Conc	7.9106
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k, 2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16338-S-RAFT_01.vdt	35,751	40,783	42,142	1.141	0.1857