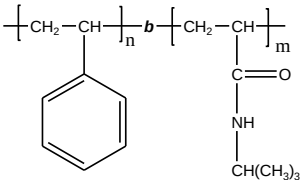
Sample Name:
Poly(styrene-b-N-isopropyl acrylamide)

Sample #: **P16338A-SNIPAM**

Structure:



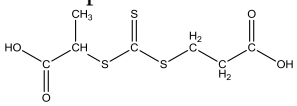
Composition:

Mn x 10^3 S-b-NIPAM	Mw/Mn (PDI)
35.0-b-10.0	1.14

Polystyrene content: 34 mol %

Synthesis Procedure:

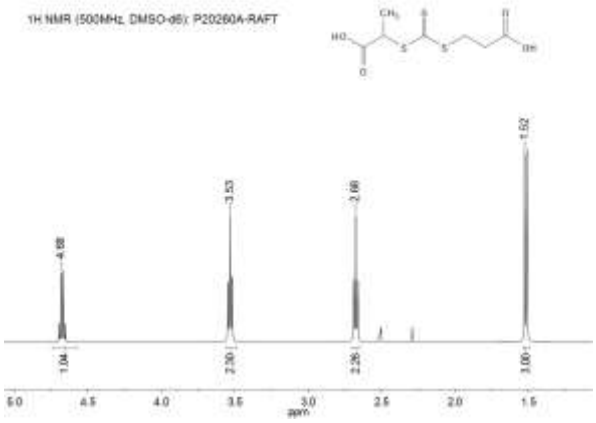
Poly(styrene-b-N-isopropyl acrylamide) is prepared by RAFT polymerization process:



Chemical Formula: $C_7H_{10}O_4S_3$
Molecular Weight: 254.3

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

^{1}H NMR spectrum of RAFT macroinitiator (500 MHz, DMSO-d_6):



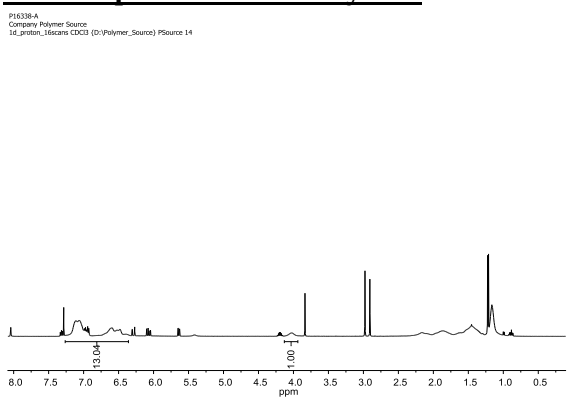
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR.

Solubility:

Poly(styrene-b-N-isopropyl acrylamide) block copolymer is soluble in DMF, CHCl3.

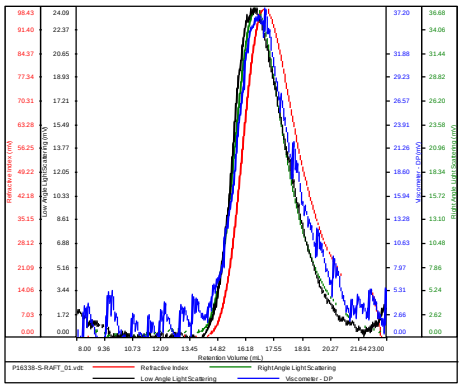
HNMR spectrum of the Polymer:



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

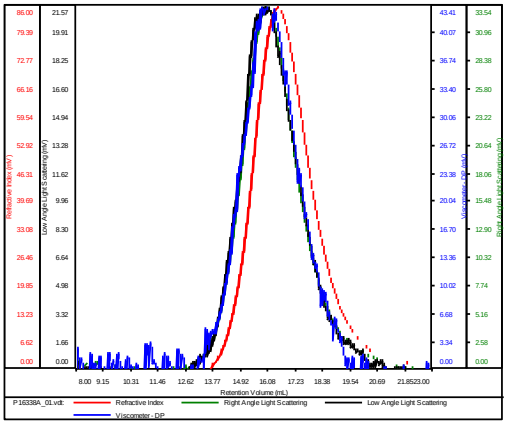


Sample	Mn	Mw	Mp	Mw/Mn	IV
P16338-S-RAFT_01.vdt	35,751	40,783	42,142	1.141	0.1857

SEC elugram of the polymer:

P16338A-SNIPAM

Conc	6.5793
dn/dc	0.1470
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
P16338A_01.vdt	45,726	52,242	48,659	1.143	0.2266