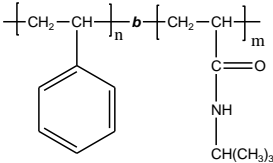


Sample Name: Poly (styrene-b-N-isopropyl acrylamide)

Sample #: P41084-SNIPAM

Structure:



Composition:

Mn x 10 <sup>3</sup> S-b-NIPAM	Mw/Mn (PDI)
86.0-b-1.0*	1.07**
For PS block:	T <sub>g</sub> : 105°C
For SNIPAM block	T <sub>g</sub> : Not distinct
* composition by HNMR	** Disribution by SEC

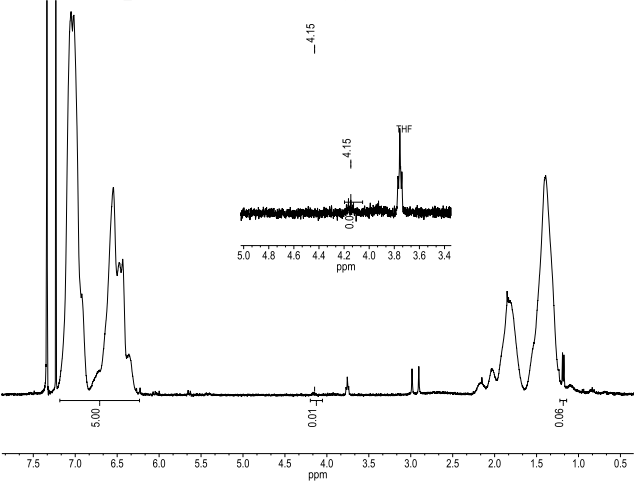
Synthesis Procedure:

Poly (styrene-b-N-isopropyl acrylamide) is prepared by anionic polymerization process. The process is proprietary at this stage.

Characterization:

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

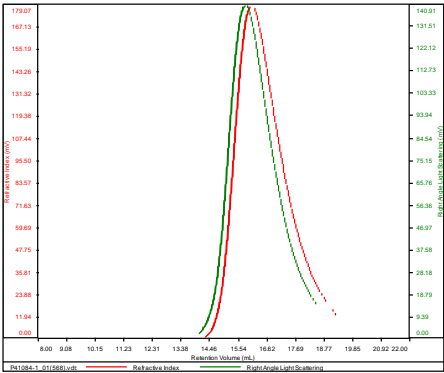
H-NMR spectrum of the Polymer:



SEC elugram of the S block:

P41084-Styrene

Conc	8.8441
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80K_2018-04-02-0000.vcm

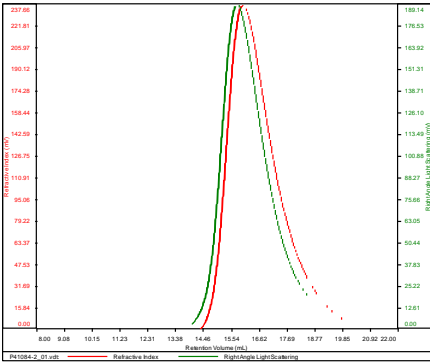


Sample	Mn	Mw	Mp	Mw/Mn	IV
P41084-1_01(568).vdt	86,171	92,414	91,362	1.072	0.3281

SEC elugram of the Sample:

P41084-S-NIPAM

Conc	12.1382
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
P41084-2_01.vdt	86,101	92,530	92,601	1.075	0.3137

FTIR of the Sample:

It shows the presence of NIPAM block attached to Polystyrene block.

