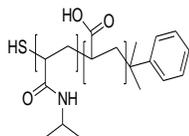


Sample Name:
Poly(N-isopropylacrylamide-co-acrylic acid), α -thiol-terminated

Sample#: **P60658-2A-NIPAMAAran-SH**

Structure:

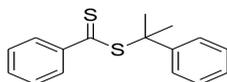


Composition:

$M_n \times 10^3$	PDI
24.0	1.26
Poly(NIPAM) ¹⁶⁵ -Poly(AA) ⁷⁰	

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process using the following RAFT CTA:



And subsequently tBu ester moiety was removed by treatment of the polymer with HCl in hexafluoroisopropanol, and dithiocarbonate was converted into thiol by hydrazine.

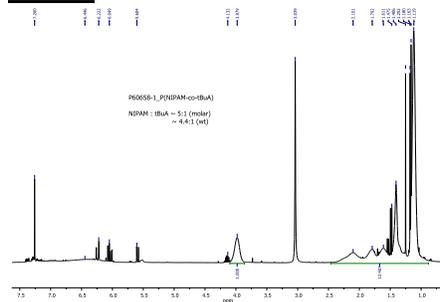
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

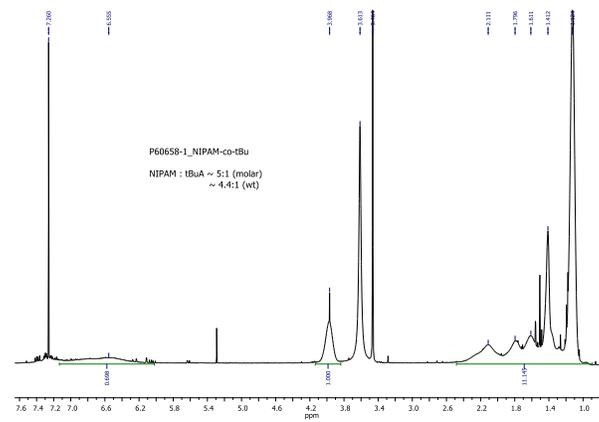
Solubility:

Polymer is soluble in methanol and insoluble in chloroform.

HNMR of the precursor polymer run in CDCl₃



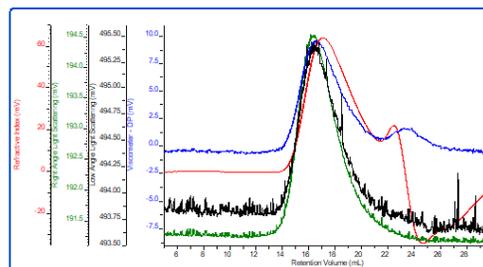
HNMR spectrum of the polymer run in CDCl₃



SEC elugram of precursor NIPAMnBuAran copolymer:

P60658-2A

dn/dc	0.0770
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	Calibration_2020-11-25_PMMA-85K-0003.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P60568C_1_2021-05-17	23,939	30,289	30,267	1.265