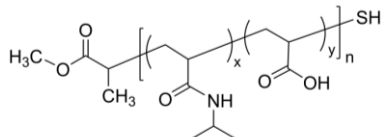


**Sample Name:** Poly(N-isopropylacrylamide-co-acrylic acid), ω-thiol-terminated

**Sample#:** P43509-NIPAMAAran-SH

**Structure:**

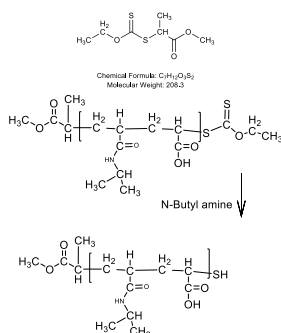


**Composition:**

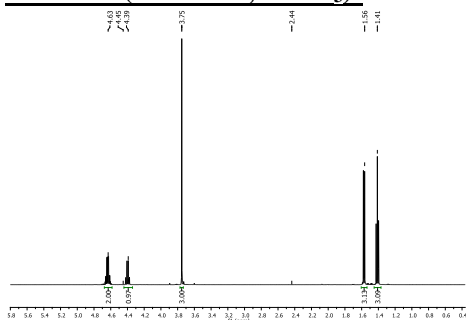
$M_n \times 10^3$	PDI
11.0	1.5
Poly (NIPAM) <sub>85</sub> -P(AA) <sub>15</sub>	

**Synthesis Procedure:**

The polymer was synthesized by RAFT polymerization process using following RAFT. The following reaction scheme shows how the product was prepared:



**<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>):**



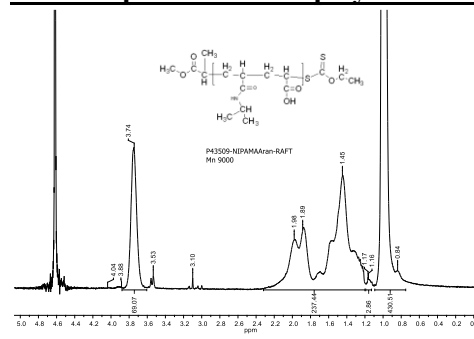
**Characterization:**

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

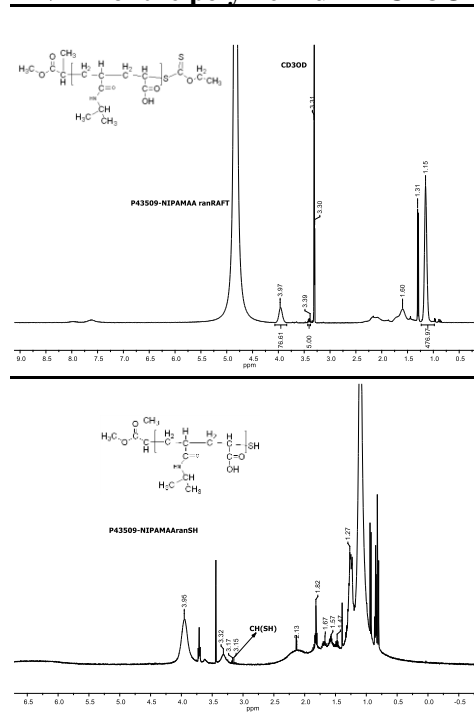
**Solubility:**

Polymer is soluble in cold water and methanol.

**HNMR spectrum of the polymer run in D<sub>2</sub>O:**



**HNMR of the polymer run in CD<sub>3</sub>OD**



**SEC elugram of Homopolymer: Polyacrylic fraction converted to n-Butylester in order to check molecular weight of copolymer eluted in THF:**

