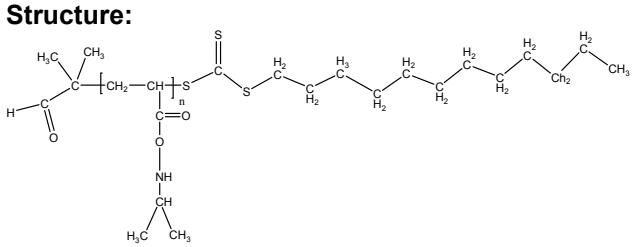
Sample Name: **COOH end terminated Poly(N-isopropyl acrylamide)**

Sample #: **P14495-NIPAMCOOH**

Structure:

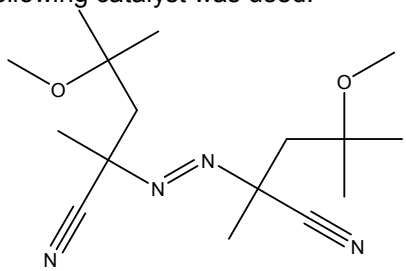


Composition:

Mn x 10^3	PDI
12.7	1.30

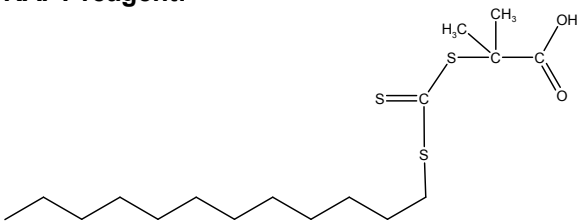
Synthesis Procedure:
COOH end functionalized poly(N-isopropyl acrylamide) is obtained by RAFT polymerization process.

Following catalyst was used:



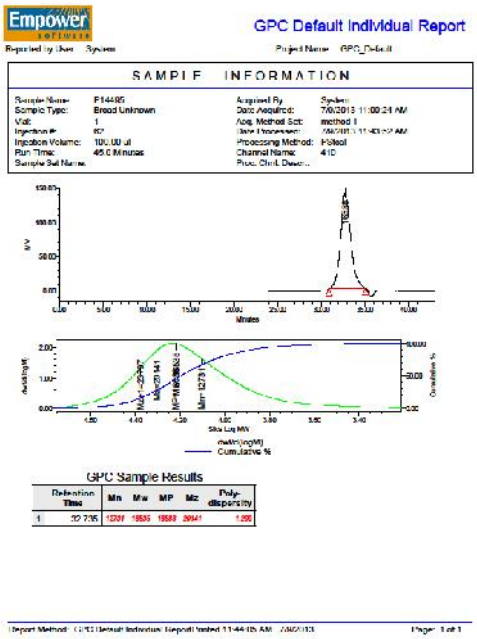
2,2'-azobis (2,4-dimethyl-4-methoxyvaleronitrile)

RAFT reagent:



2-dodecylsulfonyl-2-methylpropionic acid

Characterization: The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography (SEC) in DMF with polystyrene as standard. SEC analysis was performed on a waters chromatograph equipped with refractive detectors with three SEC columns from PSS.

Purification of polymer:
Unreacted monomer was removed by dissolving the product in cold water than warming the solution. The polymer separated out. This procedure was applied 2 times to remove the unreacted monomer. The obtained polymer was dissolved in acetone and precipitated from Hexane.

SEC of the Polymer carried out in DMF