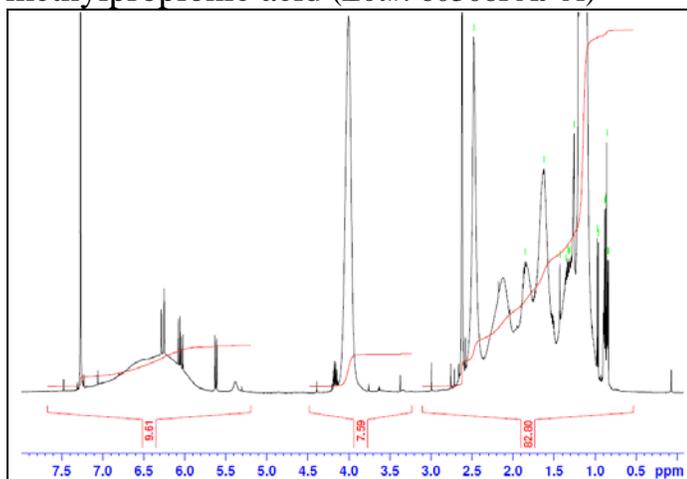


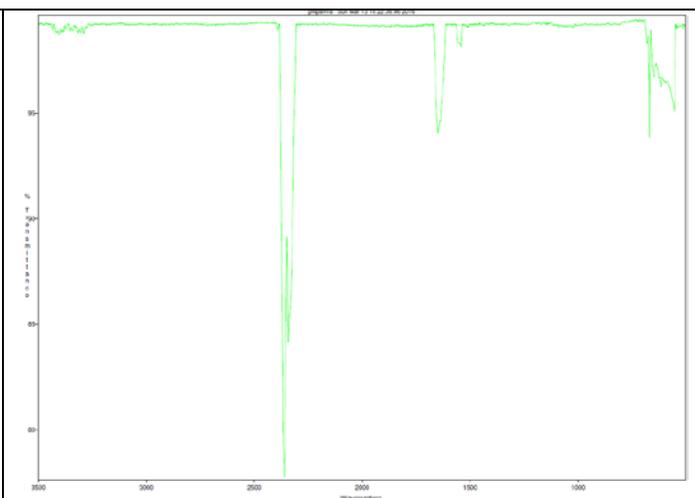
No. AO045

Certificate of Analysis

Product Name: Poly(N-isopropylacrylamide) 2-(Dodecylthiocarbonothioylthio)-2-methylpropionic acid (Lot#: 60308FAJ-A)



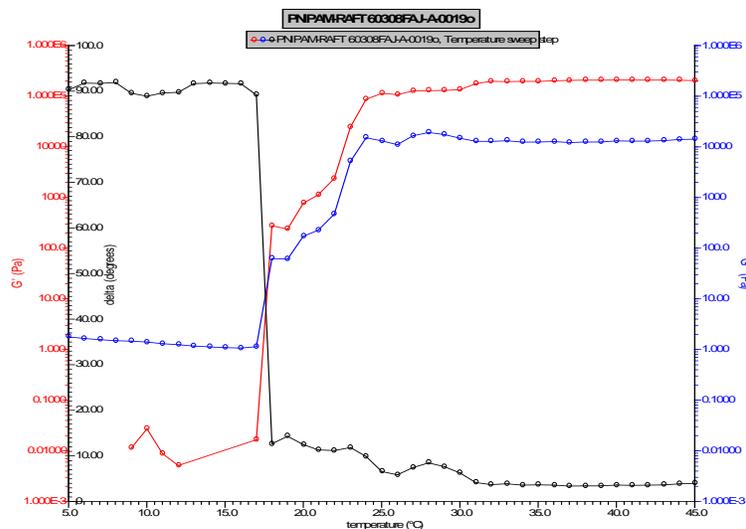
H-NMR Spectrum of PNIPAM copolymers in CDCl₃ (Varian Inova 500 MHz instrument),



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

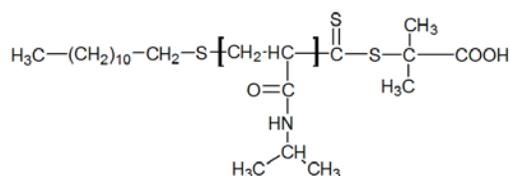
- Rheology analysis of PNIPAM copolymers**

Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in distilled water dissolved over 2 days with shaking at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 1C ranging from 5-45C with 2 minutes of temperature equilibration at each point.



Viscosity 20% w/v solution at 5C	0.4157 Pa.s
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- Structure of PNIPAM copolymers**



Material provided for research use only. Not for human use.