

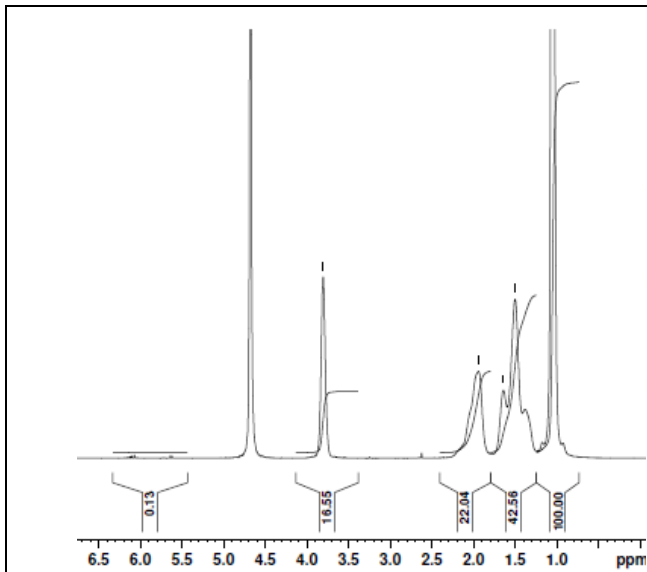
No. AO41

Certificate of Analysis



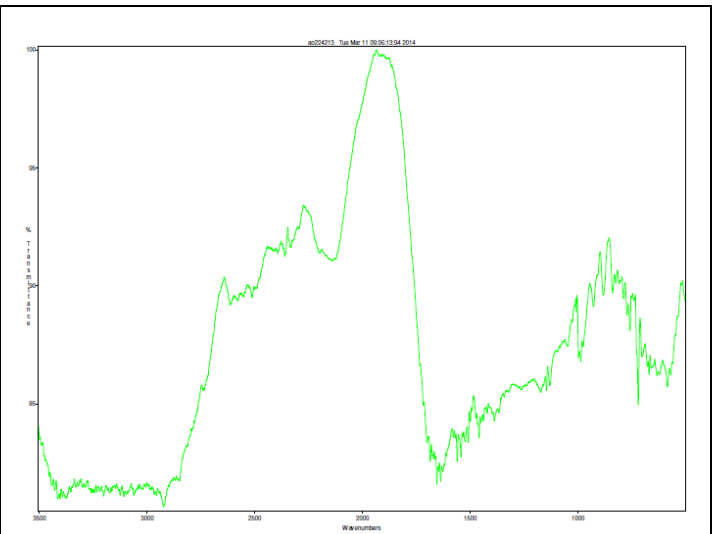
Product Name: Poly(n-isopropylacrylamide-co-acrylamide) copolymer (85:15 NIPAM:AM)
(Lot #40213SMS)

H-NMR



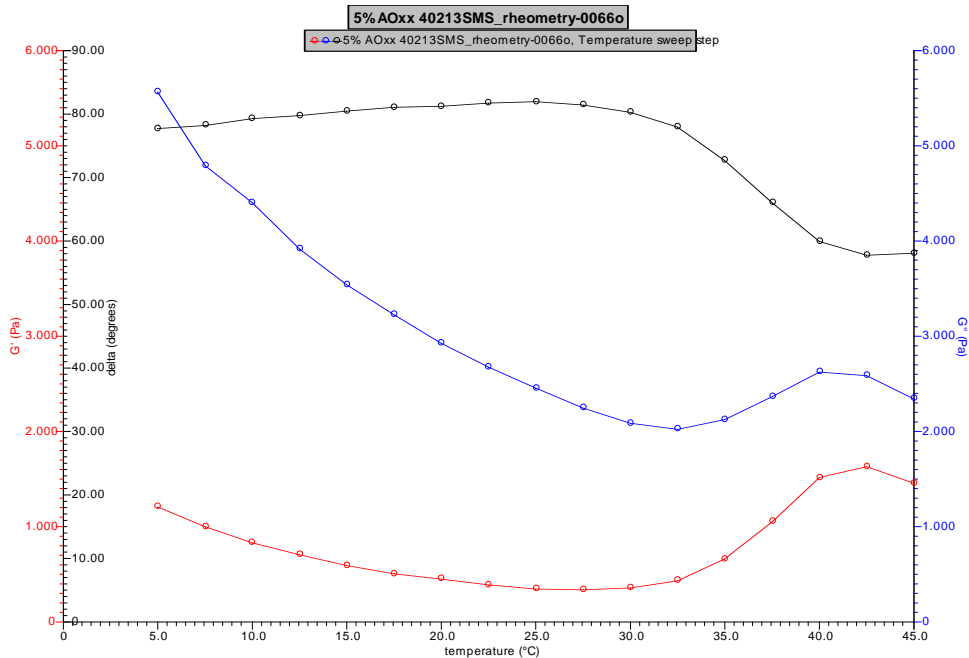
H-NMR Spectrum of P(nipam-co-AM) copolymer in D₂O
(Varian Inova 300 MHz instrument)

FTIR



FTIR Analysis: Collected from a KBR pellet placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

• Rheology



Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on ~5% w/v polymer in water dissolved overnight with stirring at 4°C. Viscosity of solution at 0.1 (sec⁻¹) and 5°C 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 2.5°C ranging from 5-45°C with 3 minutes of temperature equilibration at each point.

Rheology Chart

Viscosity ~5% w/v solution at 5°C	0.9831 Pa·s
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