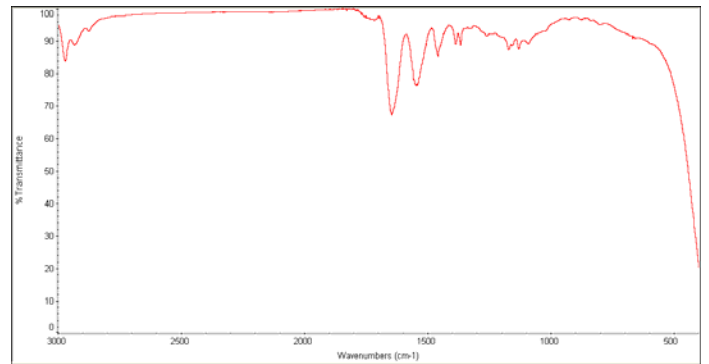
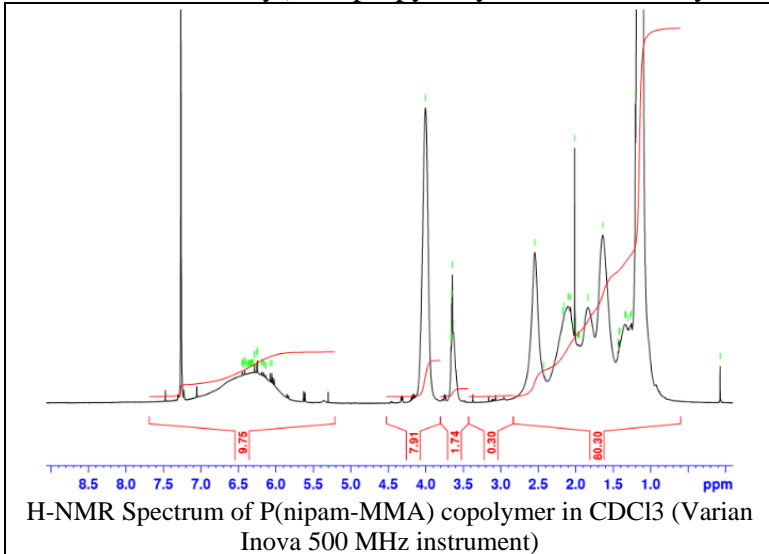


No. AO032

Certificate of Analysis



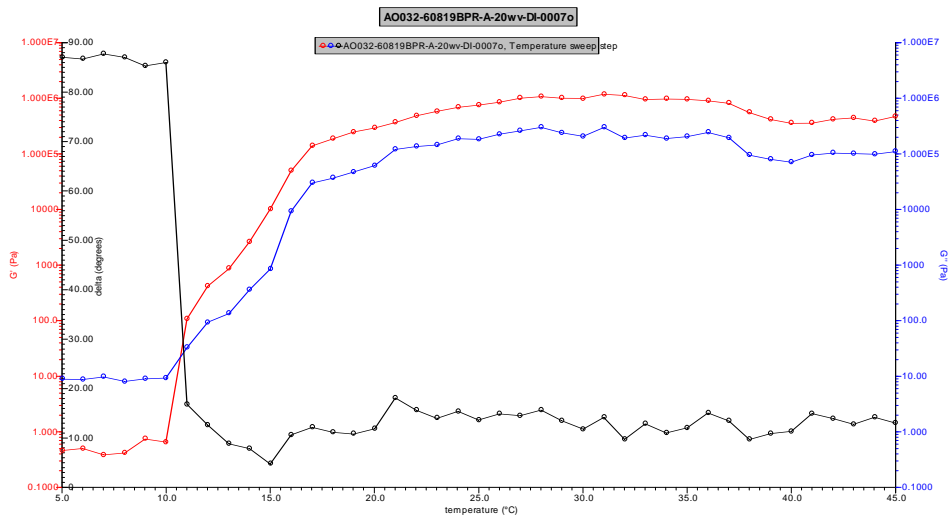
Product Name: Poly(n-isopropylacrylamide-co-methyl methacrylate) (Lot#: 60819BPR-A)



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

Rheology analysis of P(nipam-MMA) copolymers

Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved with stirring 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 1 C ranging from 5-45C with 2 minutes of temperature equilibration at each point.

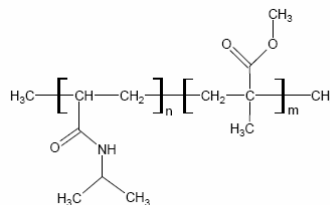


Viscosity 20% w/v solution at 5C	1.890 Pa.s
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Intrinsic Viscosity: Intrinsic Viscosity determined from a serial dilution of the product in DMSO at 2, 1, and 0.5% concentrations with a Rheosense μ VISC Viscometer with Temperature Controller (TC) at 25°C.

Intrinsic Viscosity (25 °C, DMSO)	0.719
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Structure of P(nipam-MMA) copolymers



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