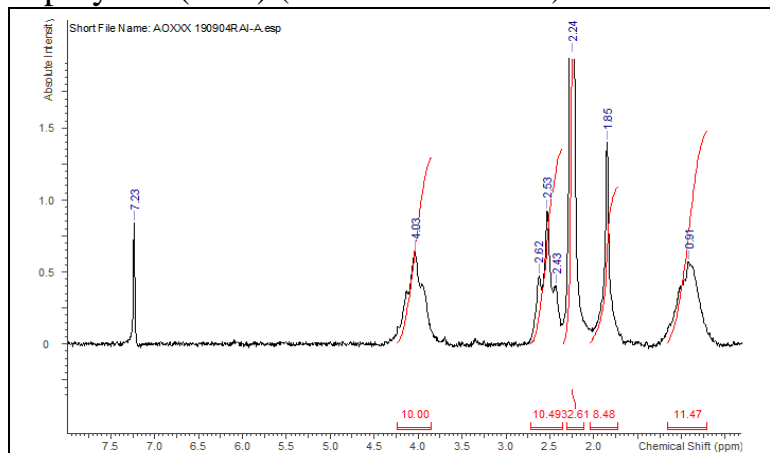


No. AO062

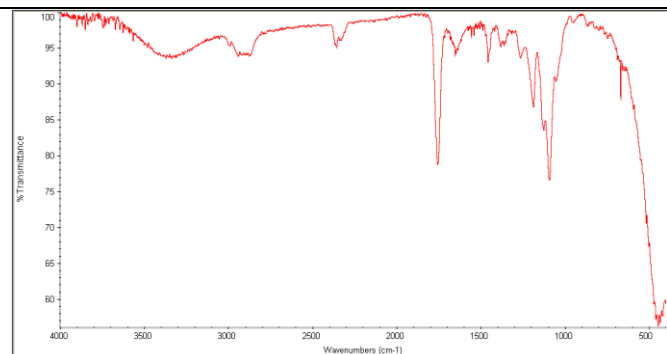
Certificate of Analysis



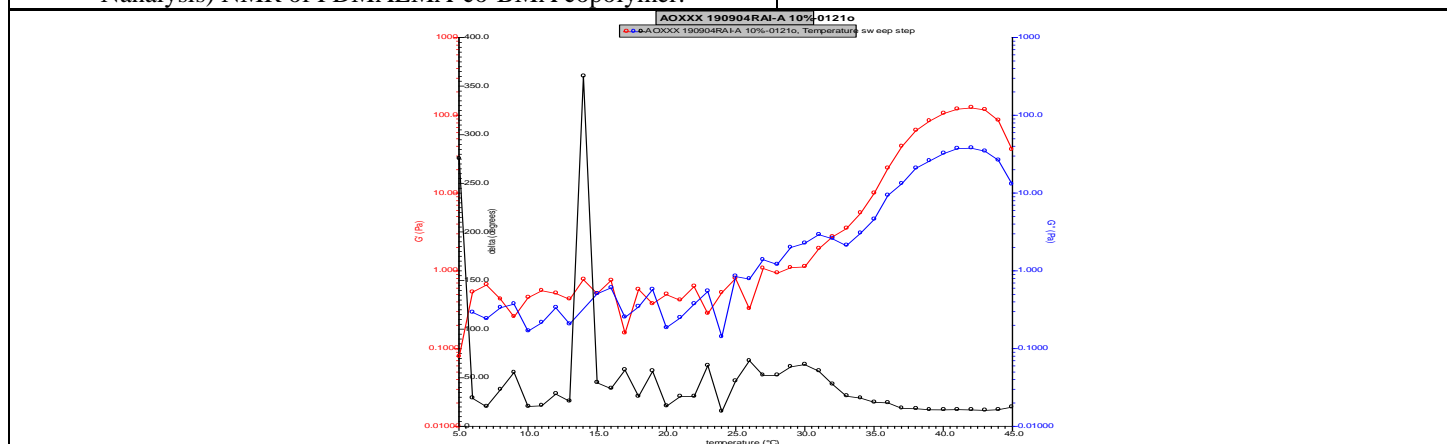
Product Name: Poly(dimethylaminoethyl methacrylate-co-butyl methacrylate) copolymer (95:5) (Lot#: 190904RAI-A)



H-NMR Spectrum of copolymers in CDCl₃ (NMReady 60e, Nanalysis) NMR of PDMAEMA-co-BMA copolymer.



FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Nicolet Avatar 320 spectrometer and analyzed in transmission mode.



Rheology performed on AR2000 (TA instruments) with 60mm 2degree cone on 10% w/v polymer in water dissolved over 3 days 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 1°C ranging from 5-45°C with 1 minutes of temperature equilibration at each point.

Viscosity 10% w/v solution at 5°C **0.1322 Pa/s**

Inherent Viscosity: 0.244 ± 0.047 dL/g (calculated from dynamic viscosity at 2% w/v DCM on Rheosense microVISC, n=3) at 25°C.

- Structure of P(dmaema-BMA) copolymers**

