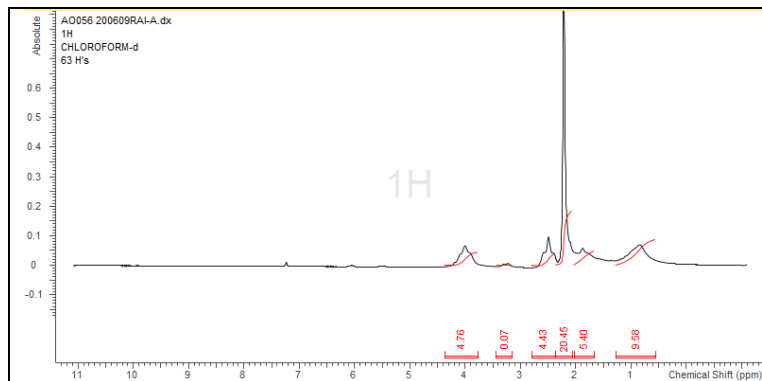


# No. AO056

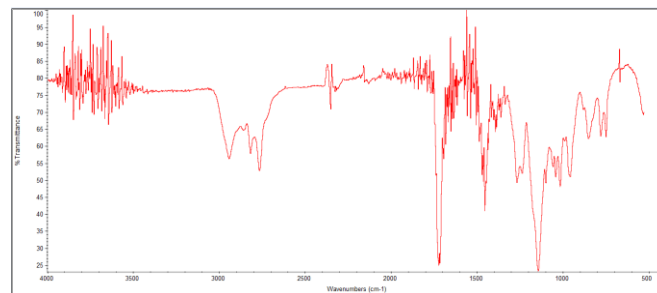
# Certificate of Analysis



Product Name: Poly(dimethylaminoethyl methacrylate) (Lot #200609RAI-A)

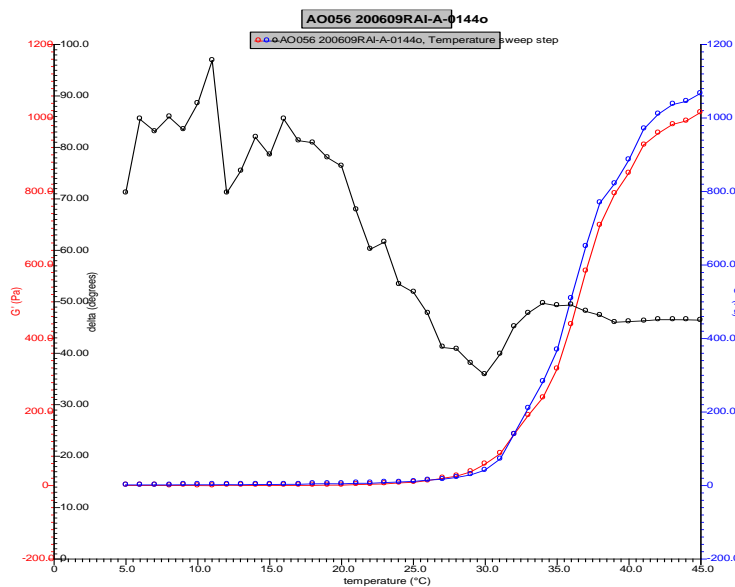


H-NMR Spectrum of copolymers in D<sub>2</sub>O (NMReady 60e, Nanalysis, 60 MHz) NMR of PDMAEMA copolymer



FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Nicolet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

Rheology performed on AR2000 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over 3 days with stirring at 4°C. Viscosity of solution at 0.1 (sec<sup>-1</sup>) 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 20% w/v solution at 5°C **0.8078 Pa\*s**

- Structure of Poly(dimethylaminoethyl methacrylate)

