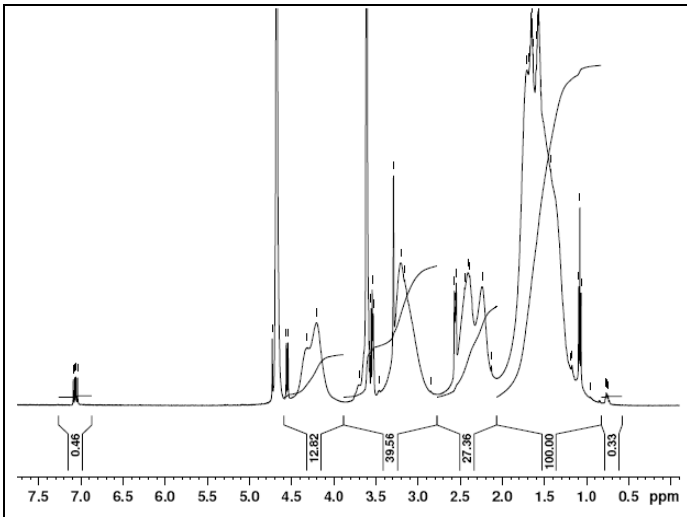
No. AO-19 Certificate of Analysis

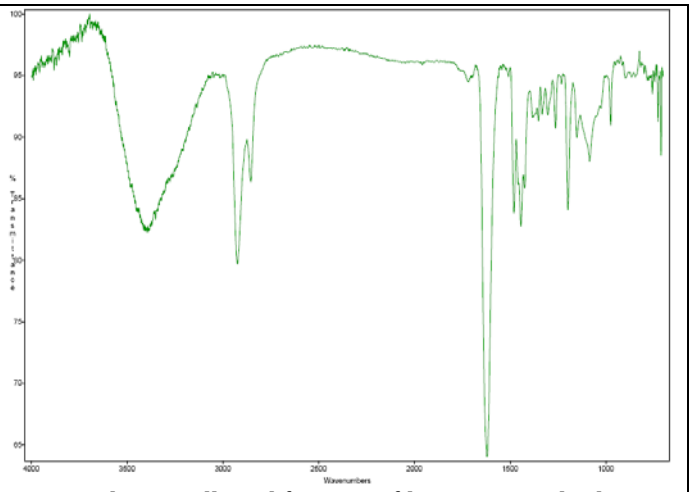
Product Name: Poly(dimethylaminoethyl methacrylate-co-methoxy polyethylene glycol) copolymer (95:5)

H-NMR



H-NMR Spectrum of P(DMEAMA-mPEG) copolymer in D_2O (Varian Inova 300 MHz instrument)

FTIR

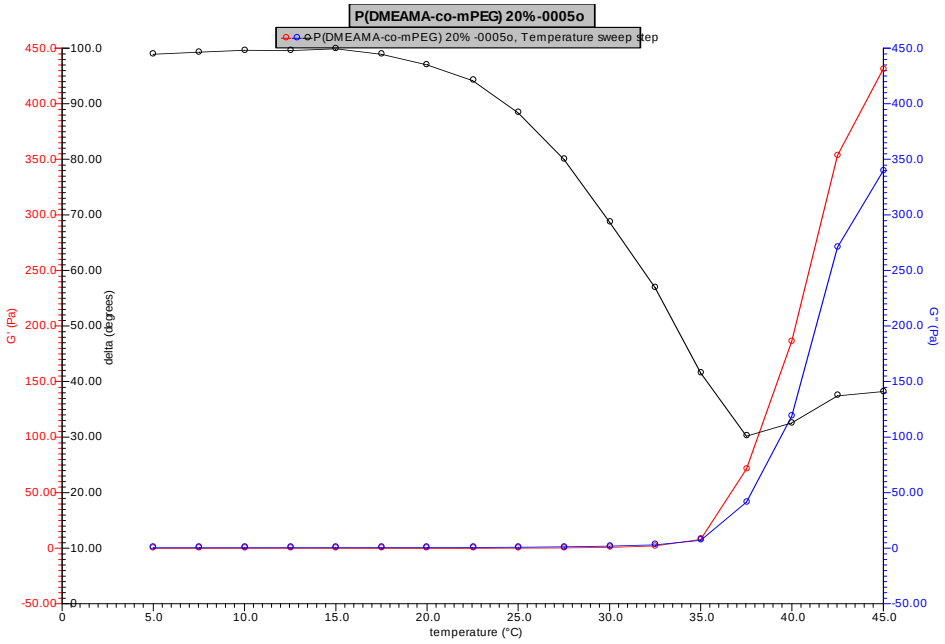


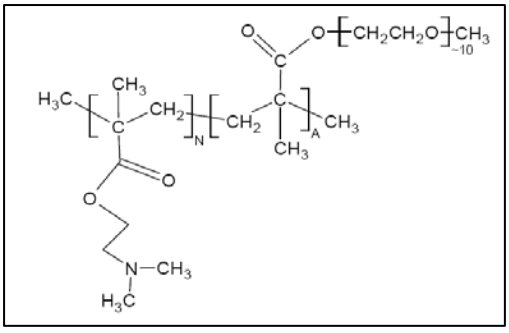
FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

- **Rheology**

Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved overnight with stirring at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1 minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 2.5C ranging from 5-45C with 3 minutes of temperature equilibration at each point.

Rheology Chart



Viscosity 20% w/v solution at 5C	0.09368 Pa.s

- **Chemical Structure**