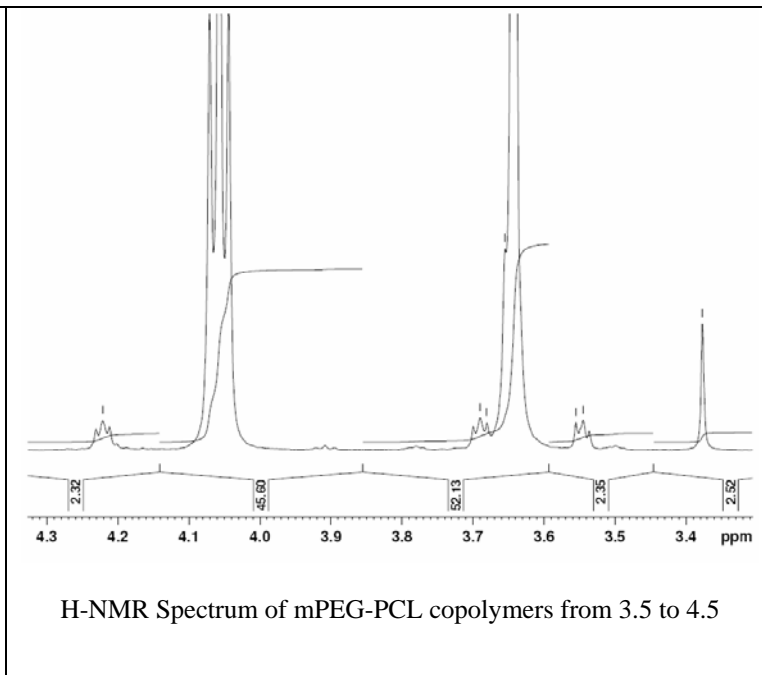
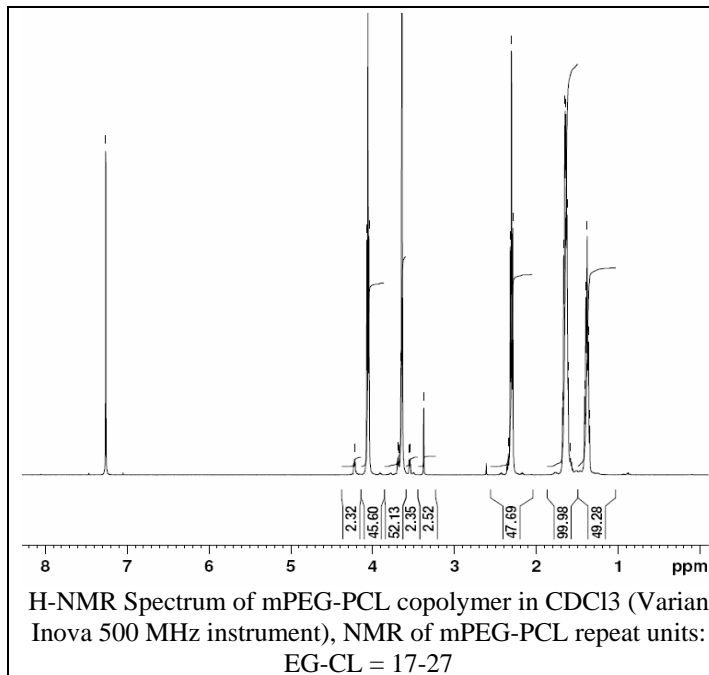


No. AK36

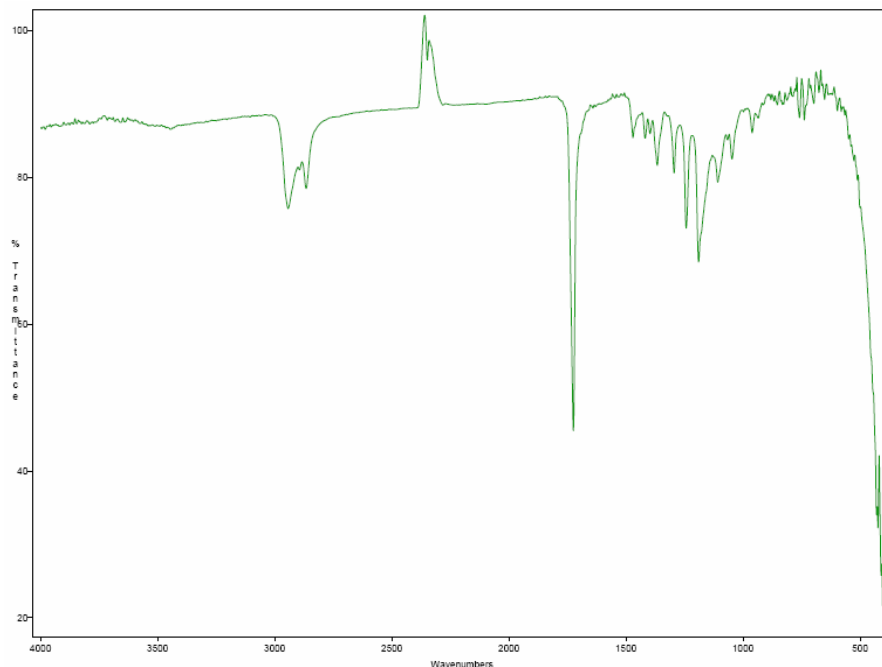
# Certificate of Analysis



Product Name: Methoxy Poly(ethylene glycol)-b-Polycaprolactone copolymers (MW ~ 750-2500 Da) (Lot#: 30130JLB)



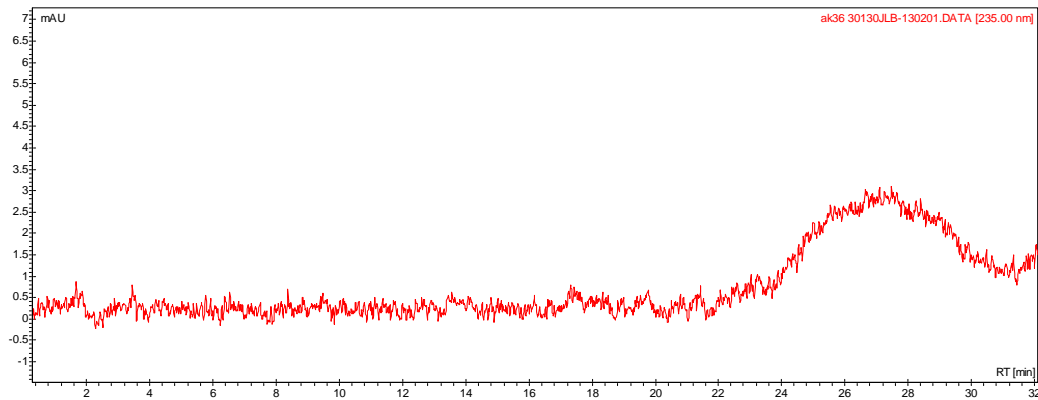
- **FTIR analysis of mPEG-PCL copolymers**



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

- **GPC analysis of mPEG-PCL copolymers**

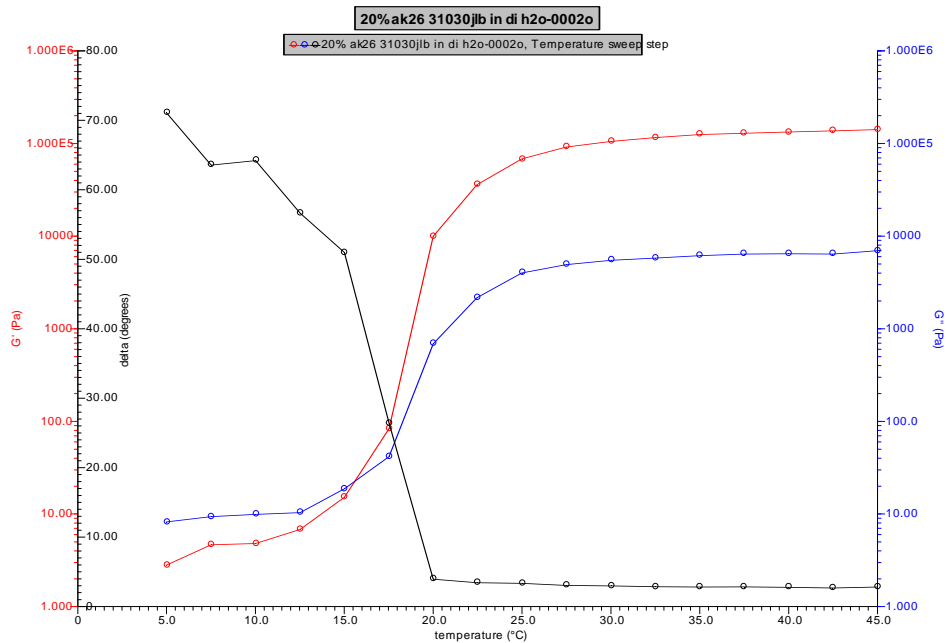
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Analysis Method: Varian Prostar system with 1 ml/min DCM flow across four Phenogel 5u columns (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
mPEG-PCL	6562	11826	1.80

- Rheology analysis of PLGA copolymers**



Viscosity 20% w/v solution at 5C      6.617 Pa.s

Rheology performed on AR550 (TA instruments) with 60mm 2° 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 (1minute 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.

- Structure of mPEG-PLGA copolymers**

