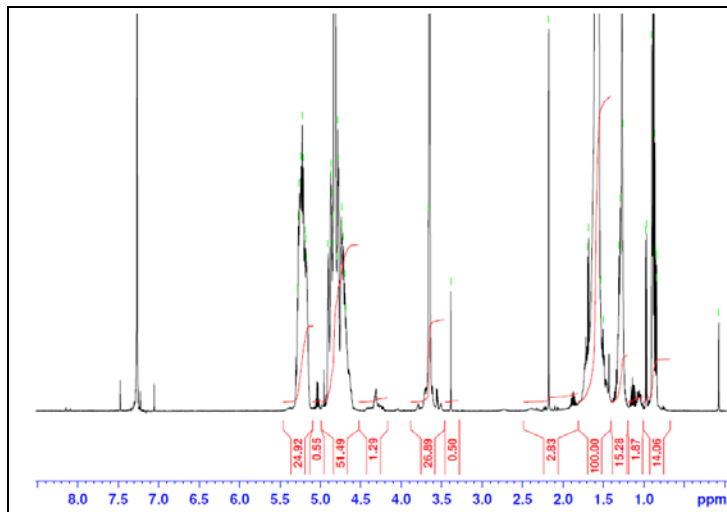
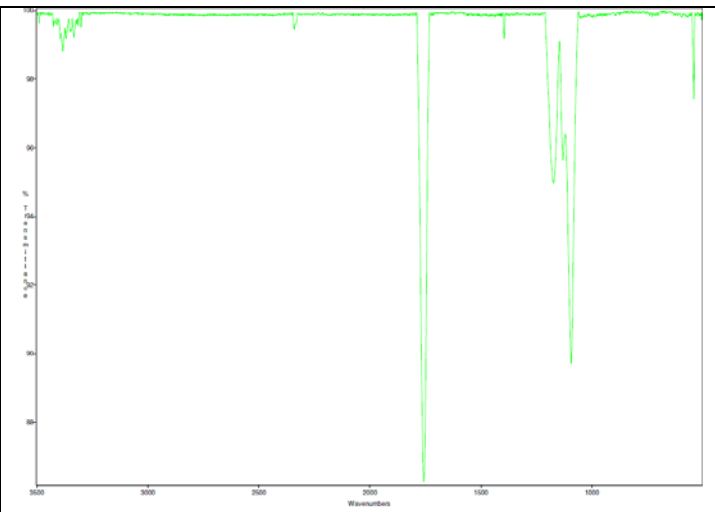


No. AK104 Certificate of Analysis

Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly(lactide-co-glycolide) ($M_w \sim 2,000:20,000$ Da, 1:1 LA:GA) (Lot#: 60523ELH-A)

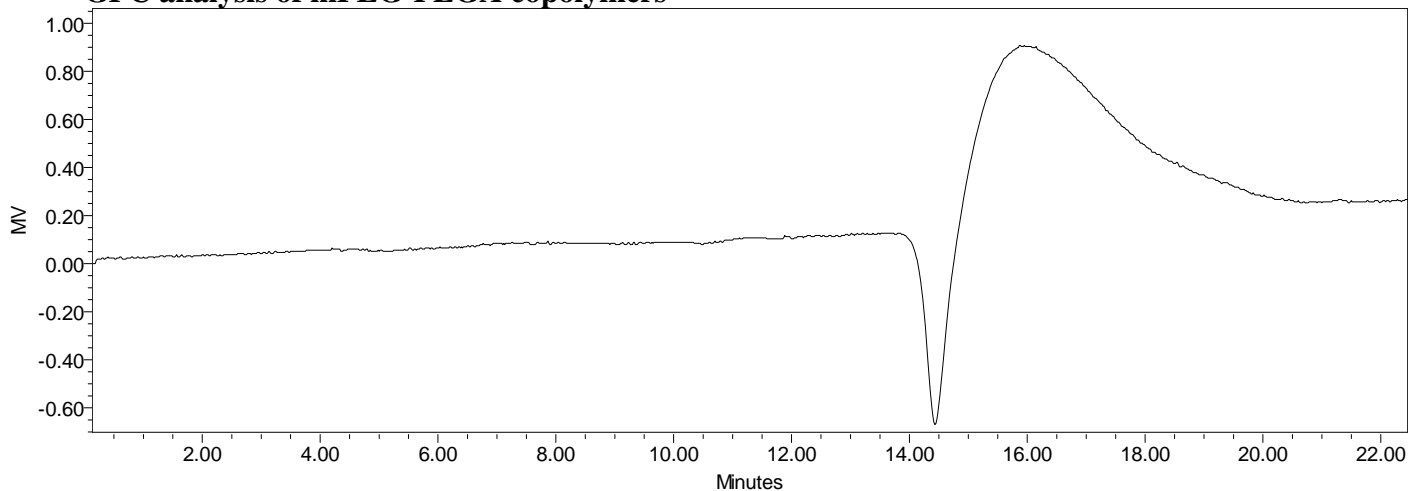


H-NMR Spectrum of mPEG-PLGA copolymer in $CDCl_3$ (Varian Inova 500 MHz instrument), NMR of mPEG-PLGA repeat units:
EG-LA/GA = 46*-208/214 $M_N = 2,026^*-12,227/10,224$
LA/GA ratio: 55%/45% (w/w) (*-MFG nominal)



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

• GPC analysis of mPEG-PLGA copolymers



Analysis Method: Waters Breeze system with 1 ml/min DCM flow across three Phenogel $5\mu m$ columns (Agilent).
Detection via refractory index, calibrated against polystyrene standards (*PEG standards).

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
mPEG-PLGA	21,585	41,912	1.94
mPEG2000 initiator*	2,468	2,511	1.02

*calibrated against PEG standards

• Structure of mPEG-PLGA copolymers

