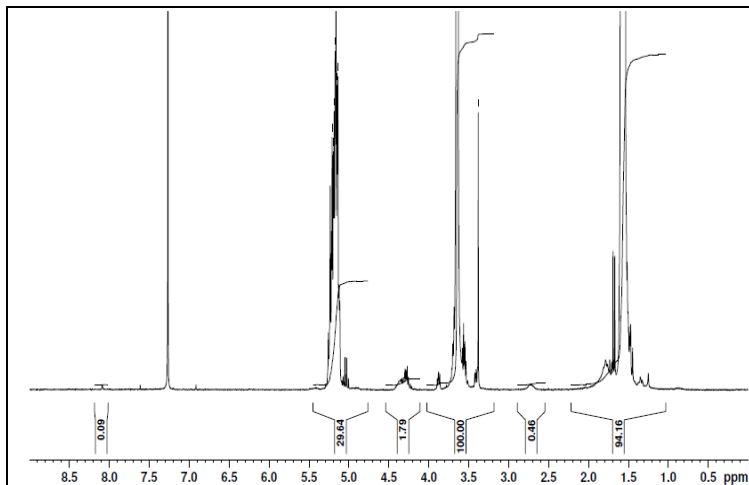
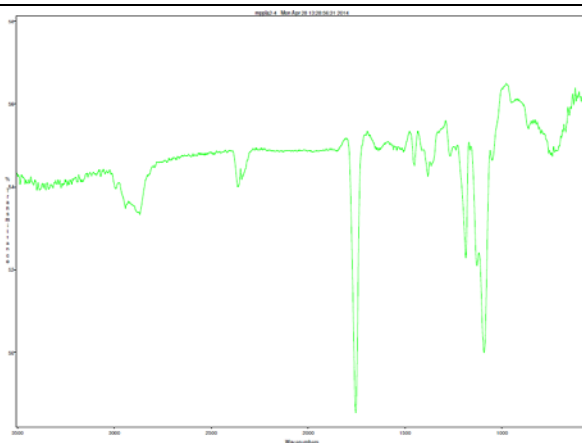


# No. AK84 Certificate of Analysis

Product Name: Methoxy Poly(ethylene glycol)-b-Poly((D,L) lactic acid) copolymers  
( $M_w \sim 2,000:4,000$  Da) (Lot#: 40422SM-A)

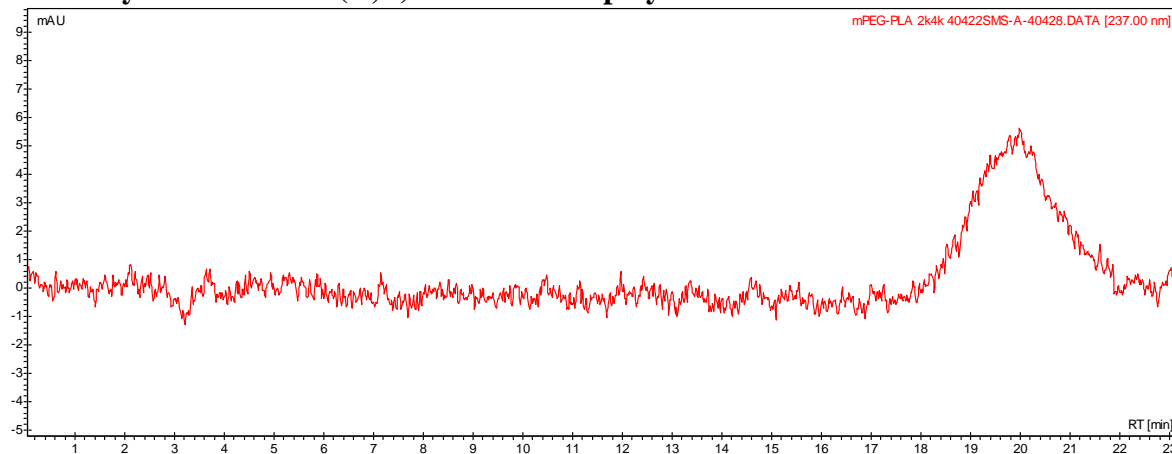


$^1\text{H-NMR}$  Spectrum of mPEG-P(D,L)LA copolymers in  $\text{CDCl}_3$  (Varian Inova 300 MHz instrument), NMR of mPEG-P(D,L)LA repeat units: EG-LA = 51-60 ( $M_n\text{-HNMR}$  2247-4354)



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-P(D,L)LA diblock copolymers**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two phenogel  $5\mu\text{m}$  columns and one resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
mPEG-P(D,L)LA	7,425	12,289	1.65
mPEG precursor*	2,298	2,637	1.15

\*-data not shown on graph

- Structure of mPEG-P(D,L)LA diblock copolymers**

