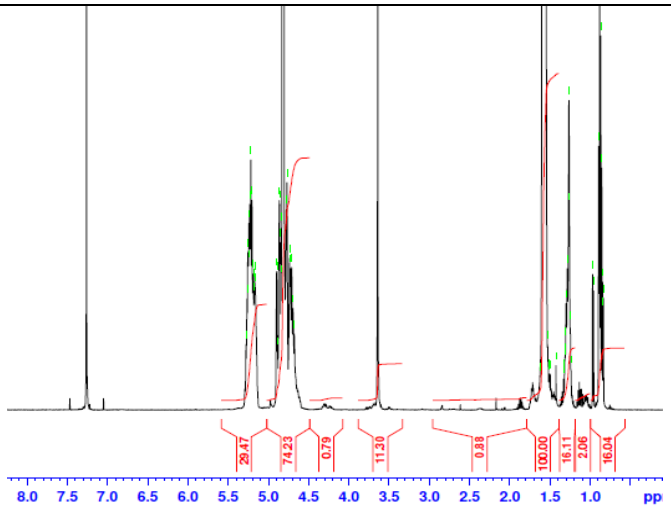
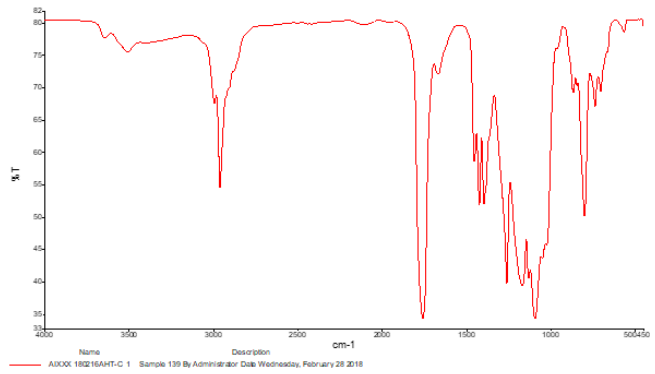
No. AI165 Certificate of Analysis

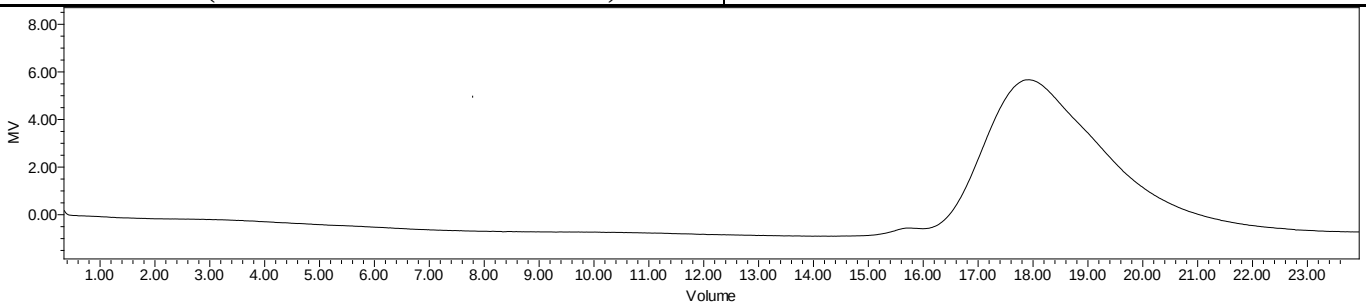
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-Cysteine ethyl ester (Thiol) (Mw ~ 70,000-2,000Da Da) (Lot# 180216AHT-C)



H-NMR Spectrum of copolymers in CDCl3 (Varian Inova 500 MHz instrument) NMR of PLGA-PEG Thiol copolymer: EG-LA/GA = 48*-501/631 (Mn EG-LA/GA 2114*-36052/36601)

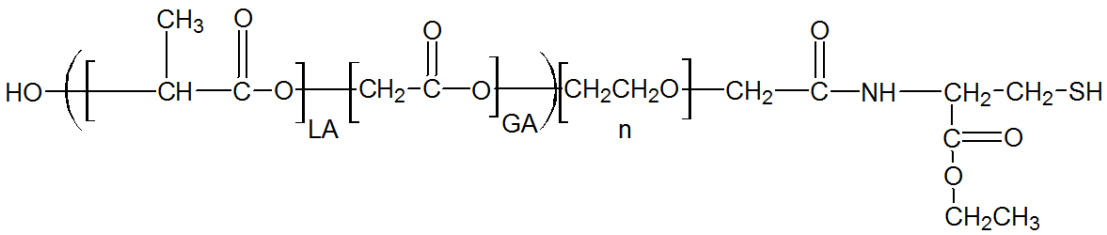


FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Perkin-Elmer Spectrum Two FTIR/UTAR spectrometer and analyzed in transmission mode.



GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-Thiol	58,255	73,230	1.26
PEG-Precursor	Average Mn by GFC – 2,100Da*		

*- from MFG data

- **Structure of PDLLA-PEG-Thiol copolymers**