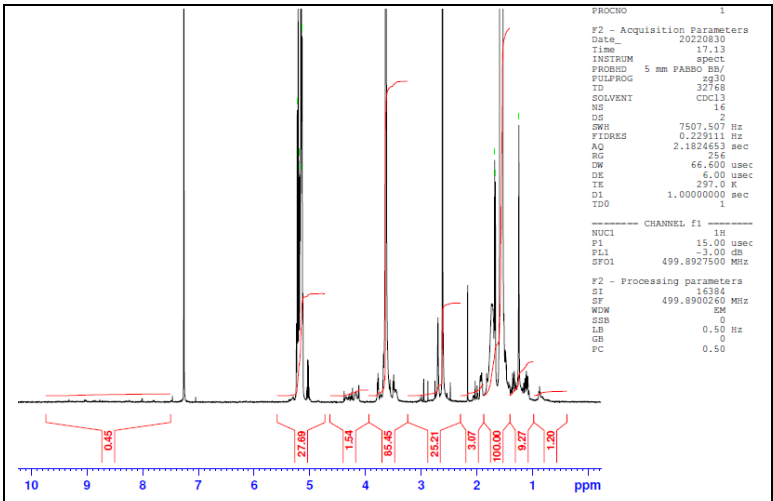
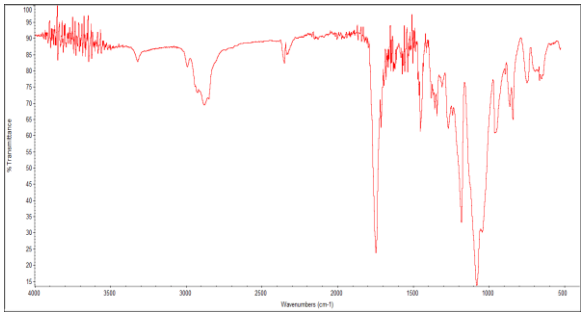
No. AI241 Certificate of Analysis

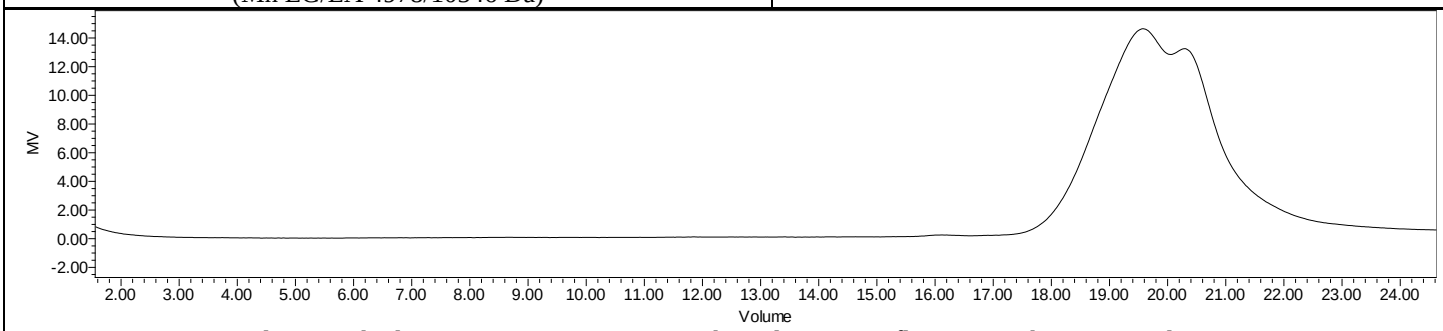
Product Name: Poly(D,L lactide)-b-Poly(ethylene glycol)-Amine copolymers (Mw ~ 10,000:5,000Da) (Lot#: 220824RAI-B)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PDLLA-PEG-NH_2 copolymer: EG/LA =113/146 (Mn EG/LA 4978/10546 Da)



FTIR Analysis: Collected from Nicollet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

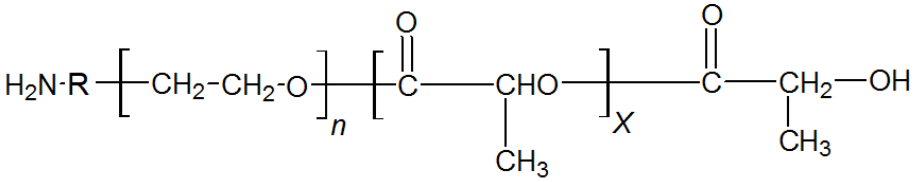


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PDLLA-PEG-NH_2	26,033	34,606	1.33
PEG-precursor*	4996*		

*- from MFG data

- **Structure of PLA-PEG-NH2 copolymers**



R – succinic dihydrazide bridge