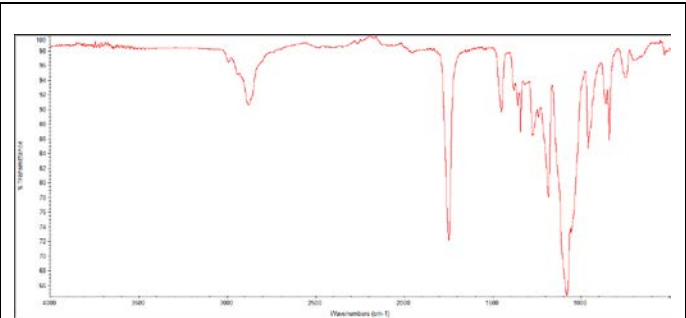
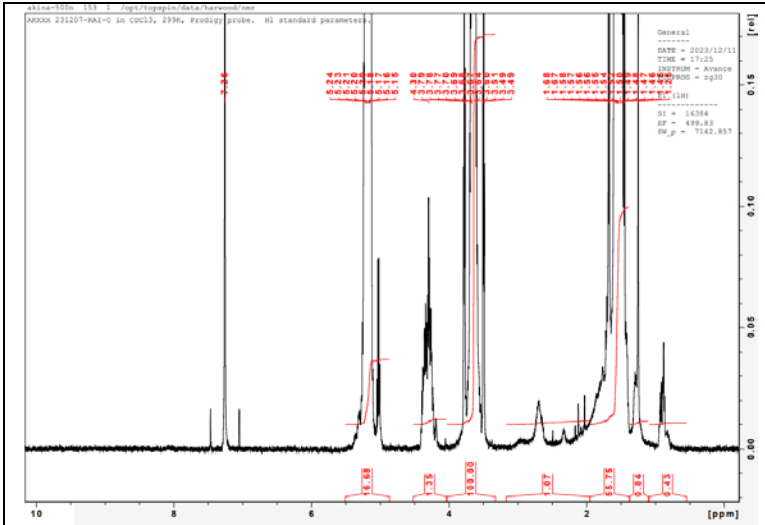


No. AK187

Certificate of Analysis

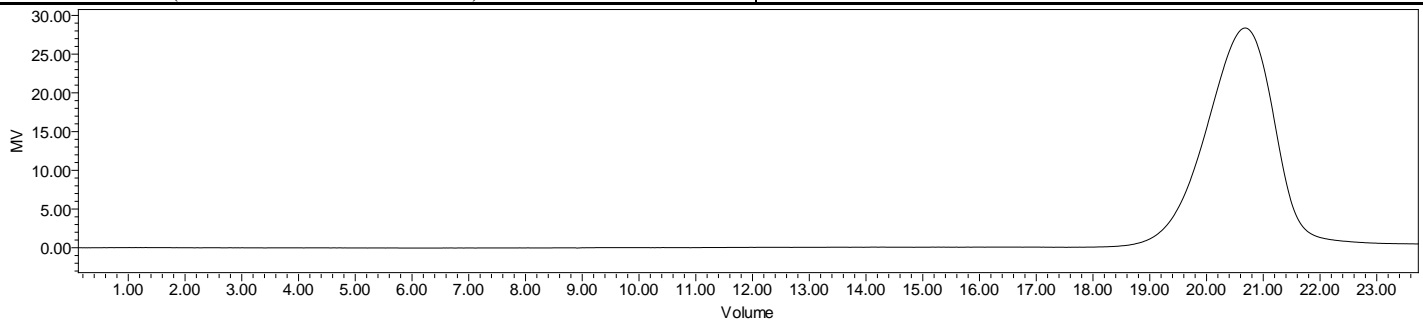


Product Name: Poly(DL-lactide)-*b*-Poly(ethylene glycol)-*b*-Poly(DL-lactide) triblock copolymers (3,000:6,000:3,000) (Lot#: 231207RAI-C)



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PDLLA-PEG-PDLLA copolymer: EG/LA =136*/91 (Mn EG/LA 5991*/6533 Da) *- from MFG data

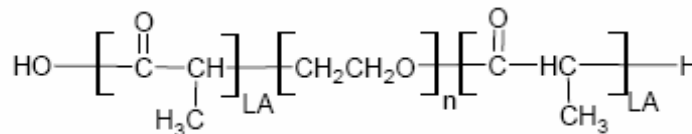


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PDLLA-PEG-PDLLA	15,600	17,870	1.15
PEG precursor*	M _w 5627*		

*- from MFG data

Structure of PDLLA-PEG-PDLLA copolymers



Approved By:
Amie Tyler
Quality Manager