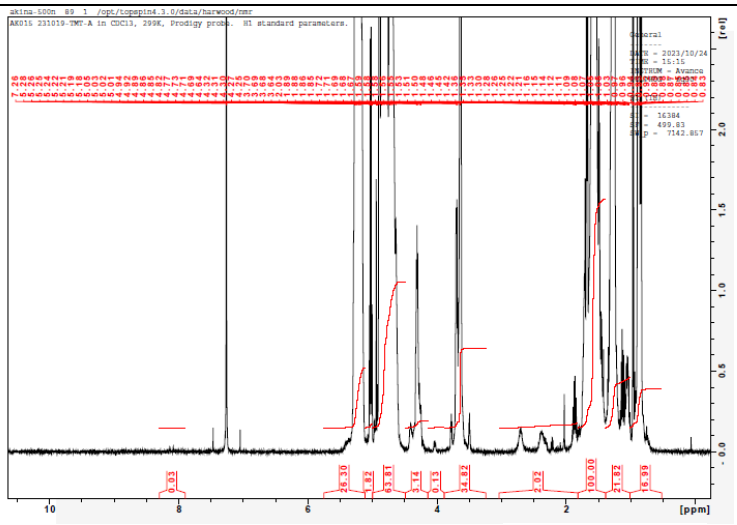
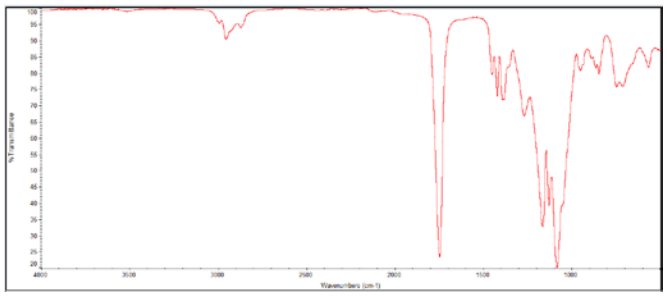
No. AK015 Certificate of Analysis

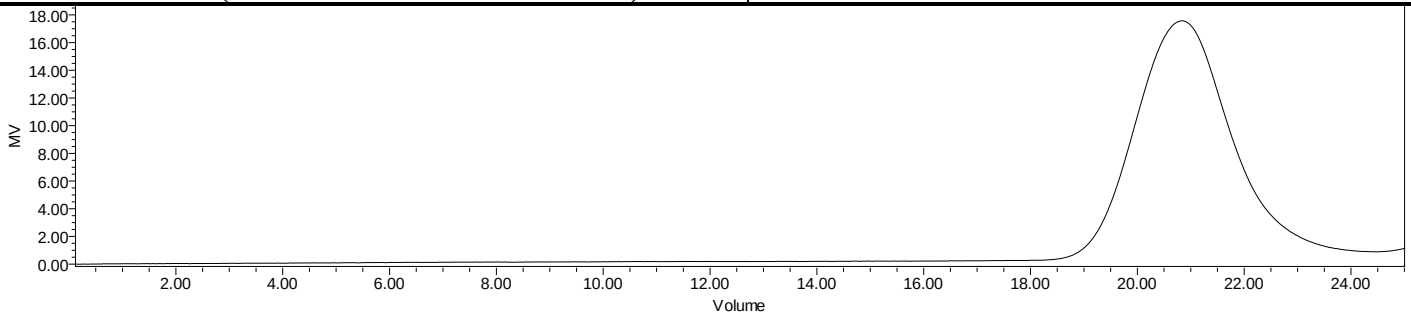
Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (5000-1000-5000 Da) (Lot# 231019TMT-A)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-PLGA copolymer: EG/LA-GA =23*/69-84 (Mn EG/LA:GA 1013*/5003-4893 Da)



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

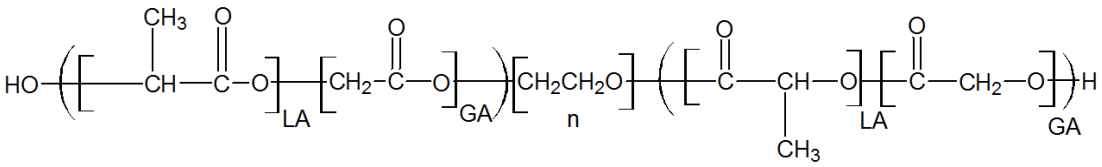


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-PLGA	11,414	15,447	1.35
PEG precursor*	Mn 1013*		

*- from MFG data

- **Structure of PLGA-PEG-PLGA triblock copolymers**



Approved By:
Amie Tyler
Quality Manager