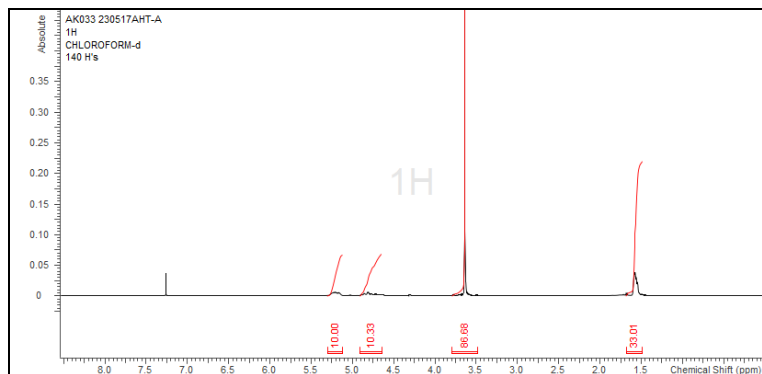


No. AK033

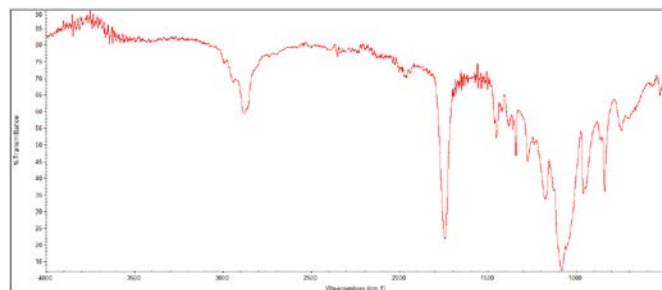
Certificate of Analysis



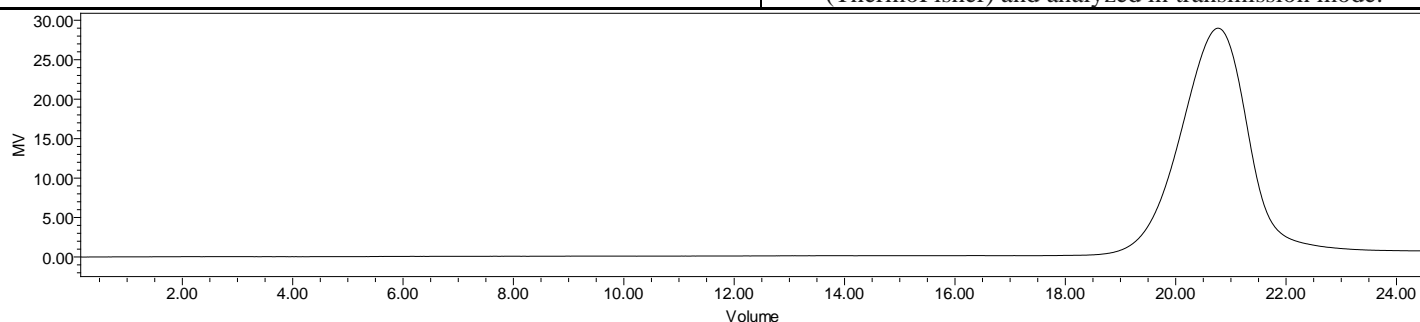
Product Name: Poly(lactic-co-glycolic acid)-b-Poly(ethylene glycol)-b-Poly(lactic-co-glycolic acid) copolymers (3750-6000-3750 Da, 70:30 LA:GA) (Lot #230517AHT-A)



H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF)
NMR of PLGA-PEG-PLGA copolymer: EG/LA-GA = 128/59-31 (Mn EG/LA:GA 5639/4253-1771 Da) *- from MFG data



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

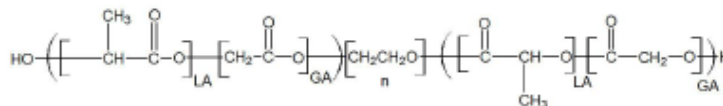


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLGA-PEG-PLGA	14,916	17,044	1.14
PEG precursor*		5627*	

*- from MFG data

• Structure of PLGA-PEG-PLGA triblock copolymers



Approved By:
Amie Tyler
Quality Manager