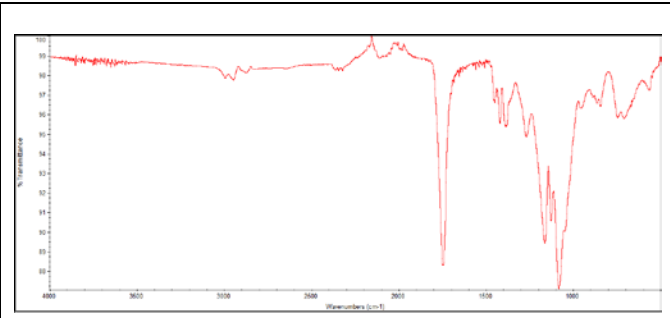
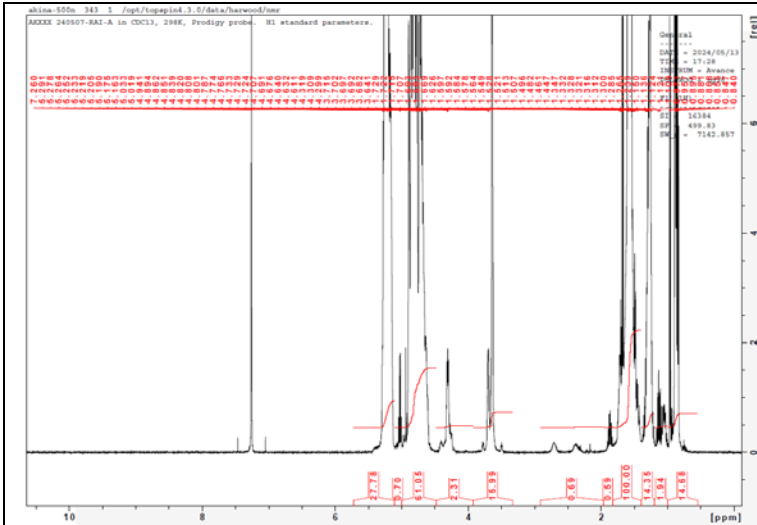


No. AK188

Certificate of Analysis

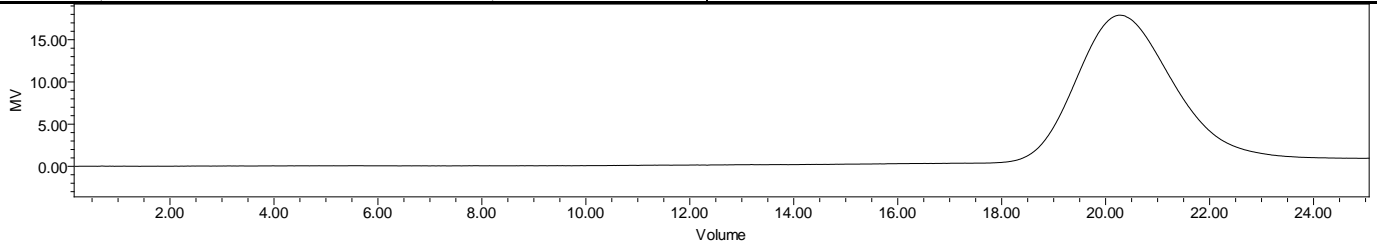


Product Name: : Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (5000-500-5000 Da) L:G 50:50 (Lot# 240507RAI-A)



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

H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-PLGA copolymer: EG/LA-GA =11*/76-84 (Mn EG/LA:GA 485*/5504-4875 Da) *- from MFG data

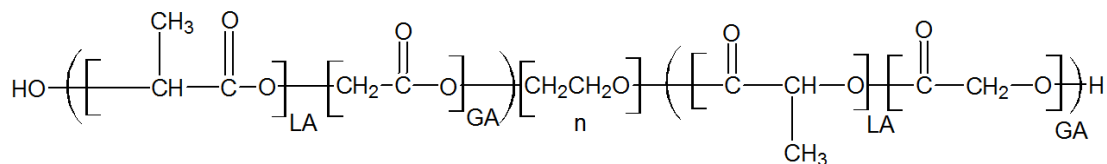


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLGA-PEG-PLGA	14,812	21,882	1.46
PEG precursor*	M _w = 500 Da		

*- from MFG data

• Structure of PLGA-PEG-PLGA triblock copolymers



Approved By:
Amie Tyler
Quality Manager