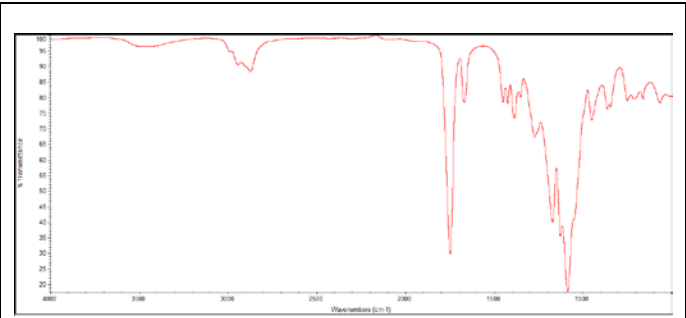
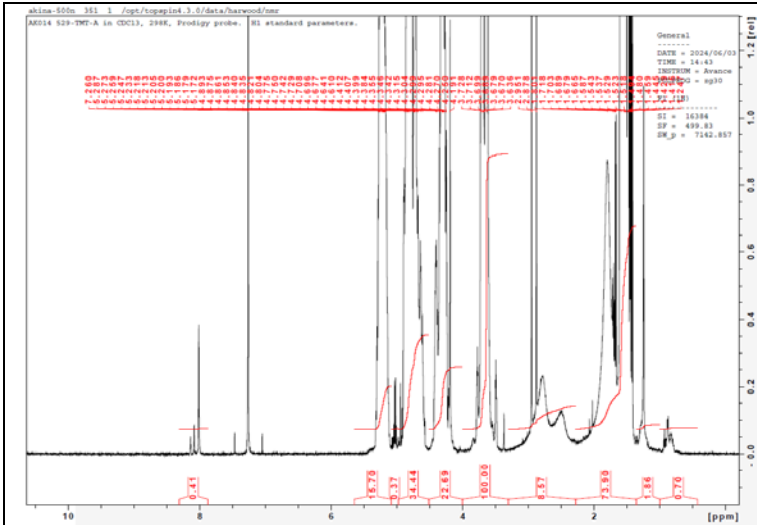


# No. AK014

# Certificate of Analysis

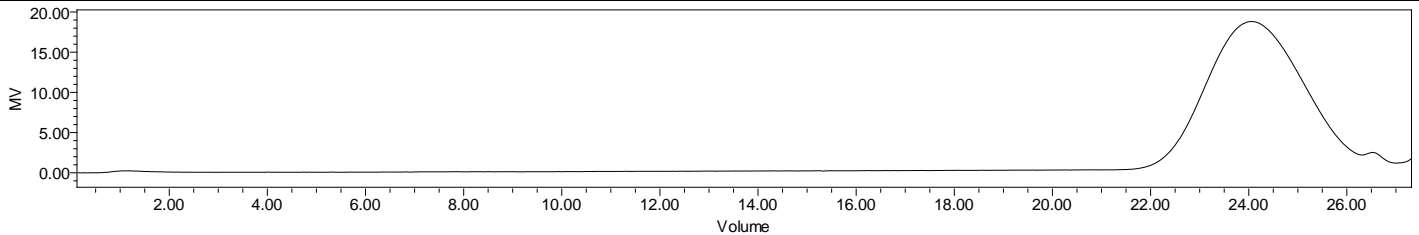


Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (Mw ~400-400-400 Da, L:G 50:50) (Lot# 240529TMT-A)



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

H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-PLGA copolymer: EG\*/LA-GA =9\*/6-6 (Mn EG\*/LA:GA 396\*/407:360 Da) \*- from MFG data

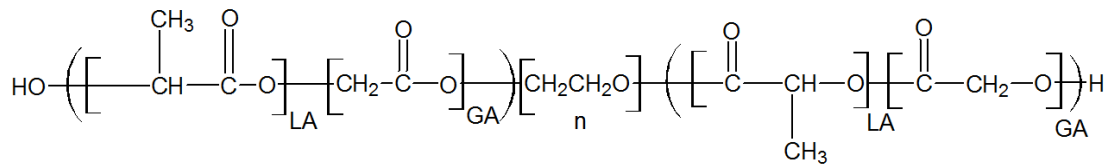


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-PEG-PLGA	1457	1776	1.22
PEG precursor*	M <sub>n</sub> = 396 Da		

\*- from MFG data

## • Structure of PLGA-PEG-PLGA triblock copolymers



Approved By:  
*Amie Tyler*  
Quality Manager