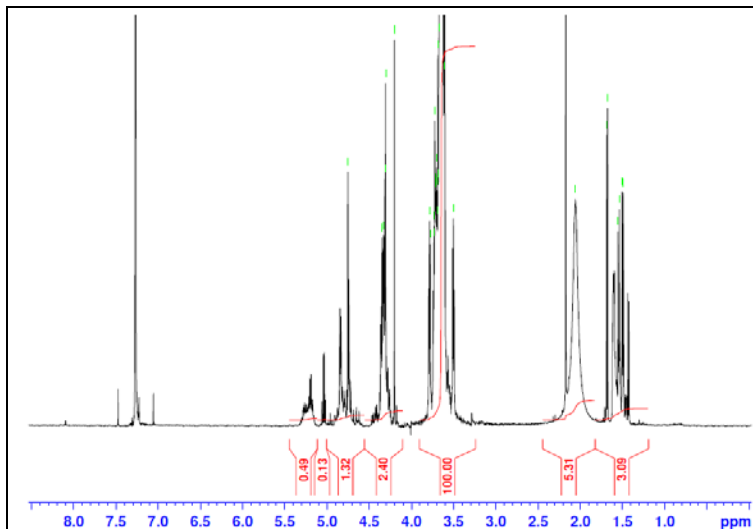


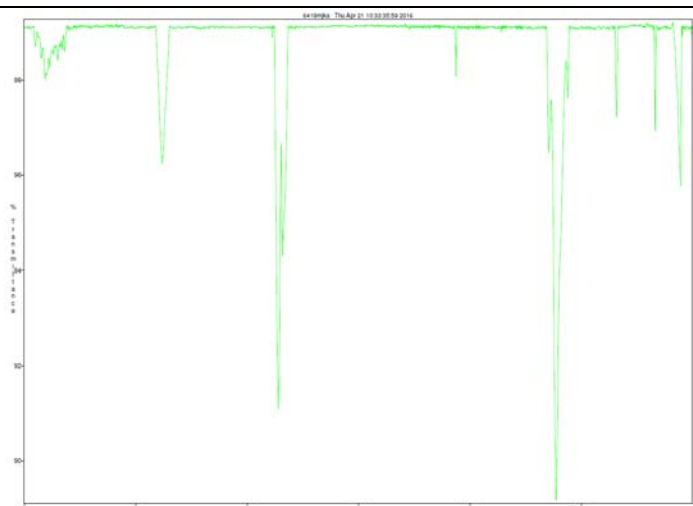
No. AK113

Certificate of Analysis

Product Name: : Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers, M_w : 200:3000:200 Da (Lot#:60419MJK-A)

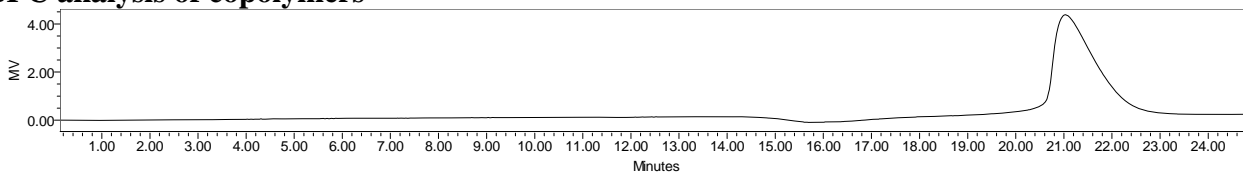


$^1\text{H-NMR}$ Spectrum of copolymers in CDCl_3 (Varian Inova 500 MHz instrument) M_n NMR of PLGA-PEG copolymer repeat units: EG-LA/GA: 71*-1/2, M_n : EG-LA/GA: 3,128*-100/109 *-MFG data.



FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

• GPC analysis of copolymers

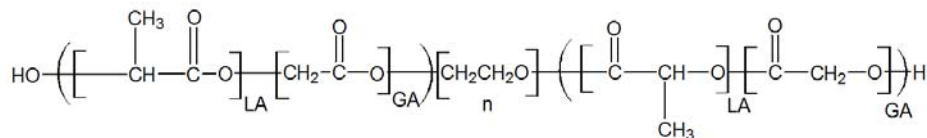


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
	4,073	6,051	1.49
PEG Precursor*	3,123	3,513	1.12

*MFG PROVIDED DATA

• Structure of PLGA-PEG-PLGA copolymer



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