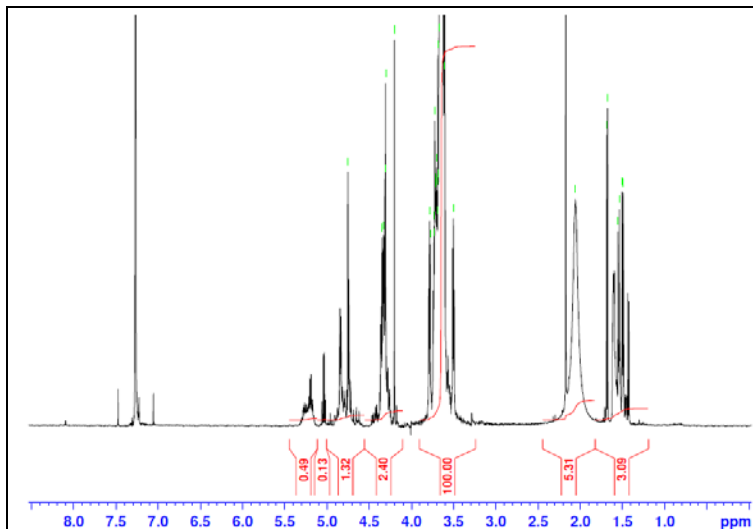


# No. AK113

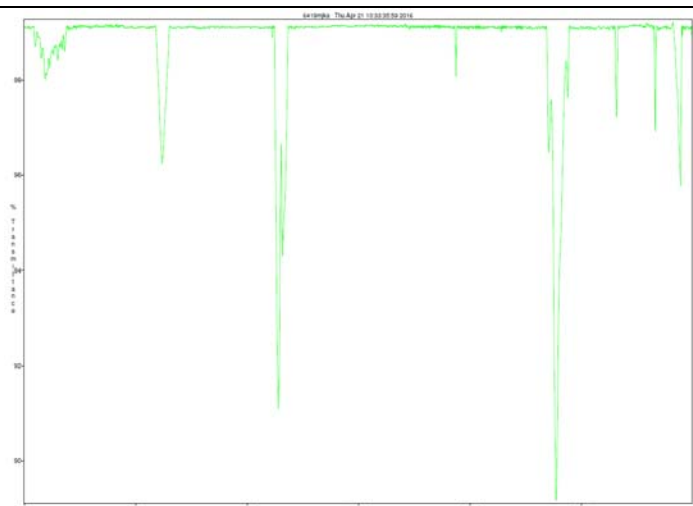
# Certificate of Analysis



Product Name: : Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers, M<sub>w</sub>: 200:3000:200 Da (Lot#:60419MJK-A)

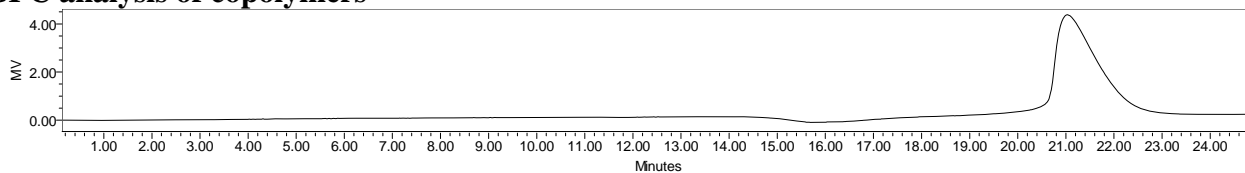


H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument) Mn NMR of PLGA-PEG copolymer repeat units: EG-LA/GA: 71\*-1/2, Mn: EG-LA/GA: 3,128\*-100/109 \*-MFG data.



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

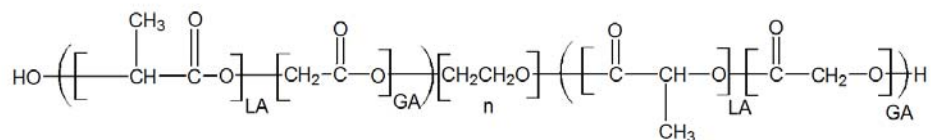


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

| Polymer        | M <sub>n</sub> (from GPC) | M <sub>w</sub> (from GPC) | PDI  |
|----------------|---------------------------|---------------------------|------|
| Polymer        | 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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PolySciTech Division of Akina, Inc. | 3495 Kent Avenue, West Lafayette, IN 47906  
765-464-0390 | www.polysciotech.com

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