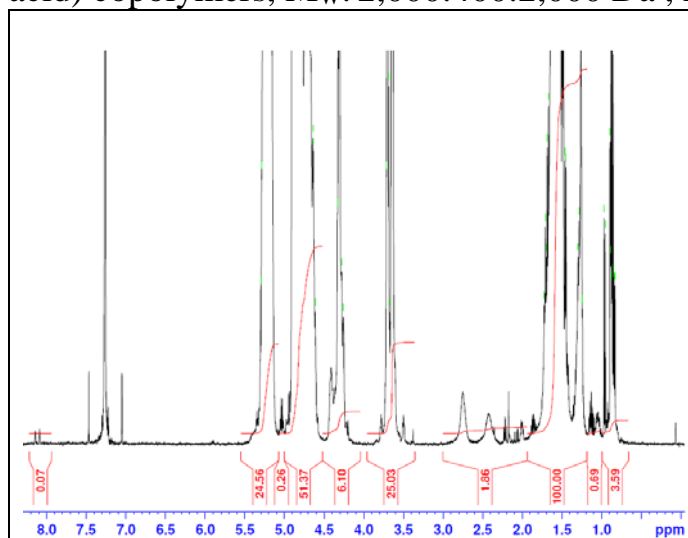
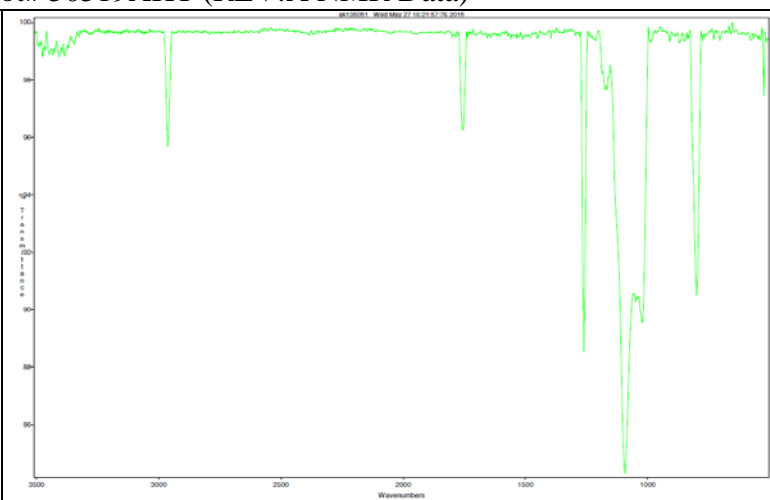


No. AK013 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers, M_w : 2,000:400:2,000 Da , Lot# 50519AHT (REV:A NMR Data)

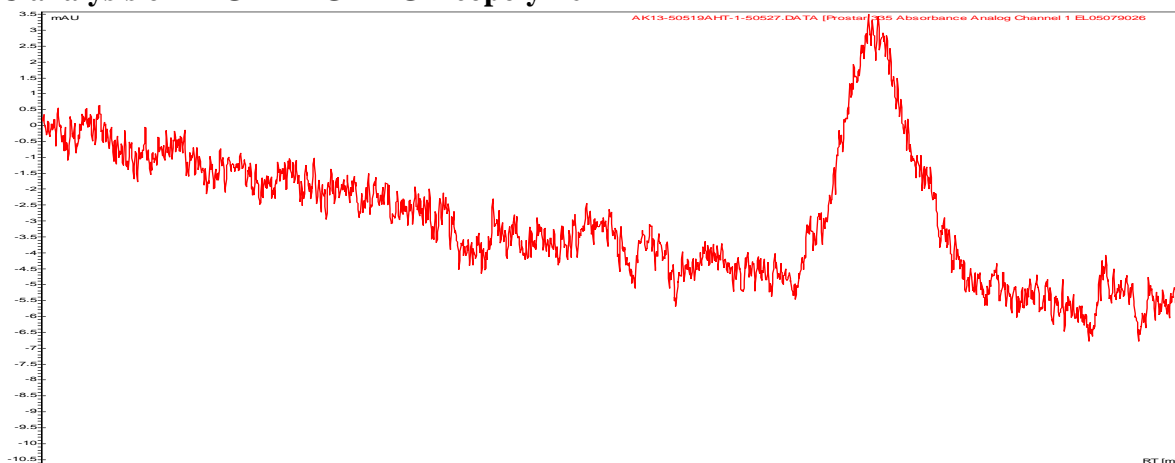


$^1\text{H-NMR}$ Spectrum of PLGA-PEG-PLGA copolymer in CDCl_3 (Varian Inova 300 MHz instrument), M_n NMR of PLGA copolymer repeat units: EG-LA/GA: 9*-35/37, M_n : EG-LA/GA: 396*-2,543/2,144 *-MFG data.



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

- GPC analysis of PLGA-PEG-PLGA copolymer**

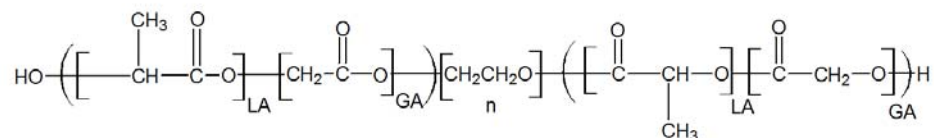


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two phenogel $5\mu\text{m}$ columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M_n (GPC)	M_w (GPC)	PDI
PLGA-PEG-PLGA	5845	9217	1.58
PEG Precursor*	325	350	1.08

*-calibrated against PEG standards

- Structure of PLGA-PEG-PLGA copolymer**



Material provided for research use only. Not for human use.