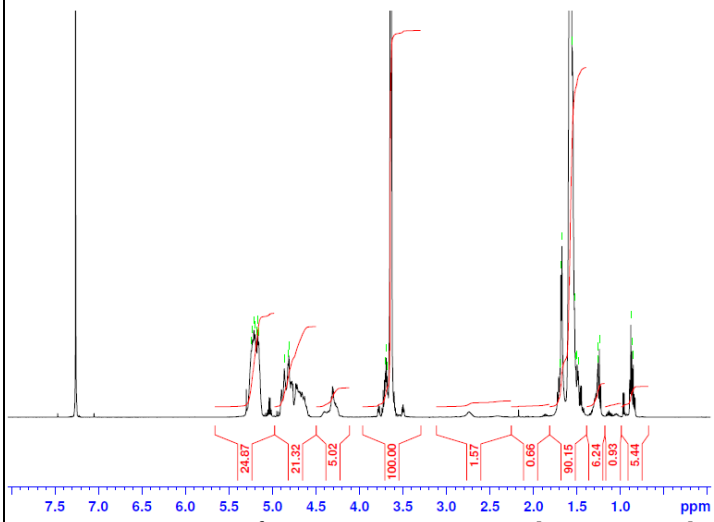
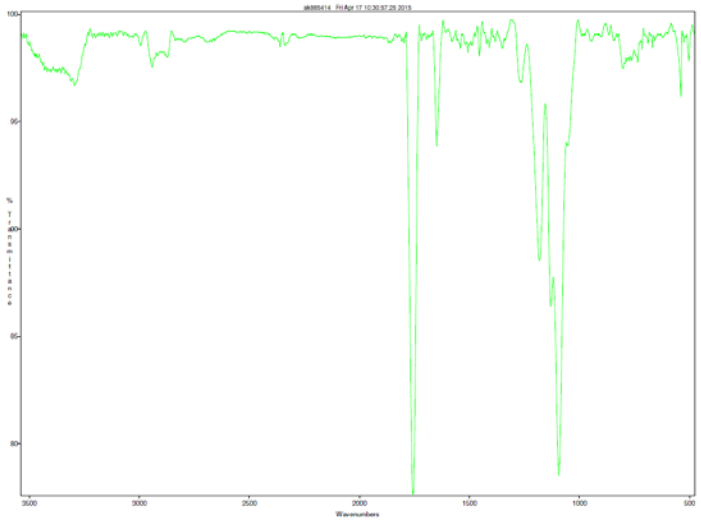
No. AK088 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (M_n1,600:1,500:1,600 Da, 3:1 LA:GA) (Lot# 50414FAJ)

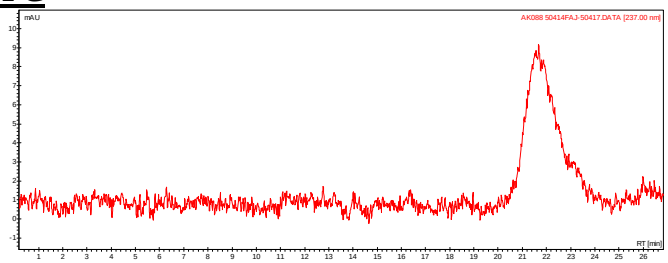


H-NMR Spectrum of PLGA-PEG-PLGA copolymer in CDCl3 (Varian Inova 500 MHz instrument), M_n NMR of PLGA-PEG-PLGA copolymers:EG-LA/GA:1,498*-2,435/841 (EG-LA/GA residues: 34*-34/14) (*-MFG data)



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

GPC



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 µm columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

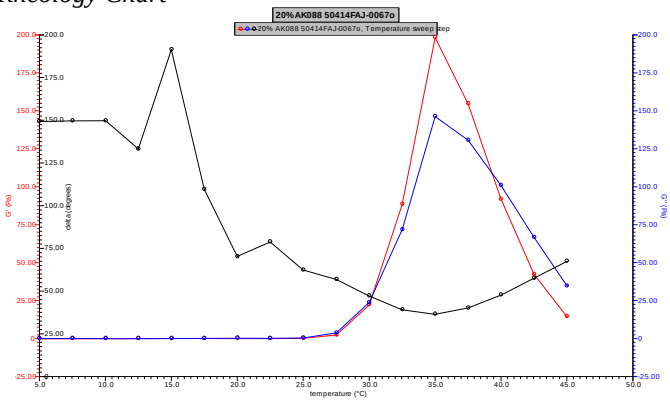
Polymer	M_n (GPC)	M_w (GPC)	PDI
PLGA-PEG-PLGA	5,423	7,320	1.35
PEG precursor	M_n – 1,485*		

*-MFG data

Rheology

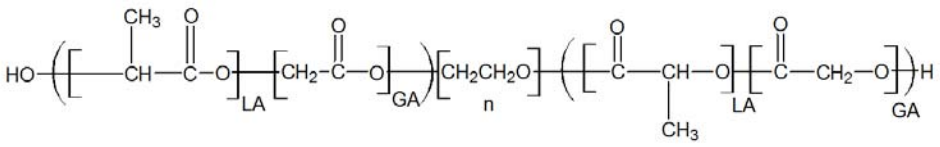
Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over two 5°C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 2.5°C ranging from 5-45°C with 3 minutes of temperature equilibration at each point.

Rheology Chart



Viscosity 20% w/v solution at 5°C	0.06798 Pa.s

- **Structure**



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