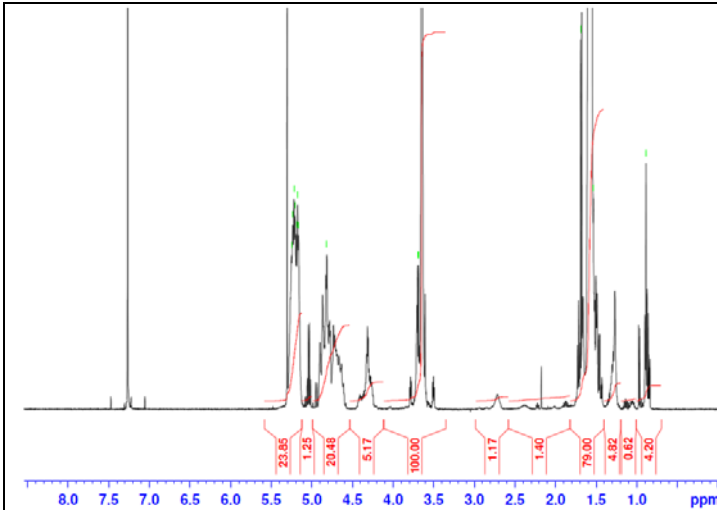
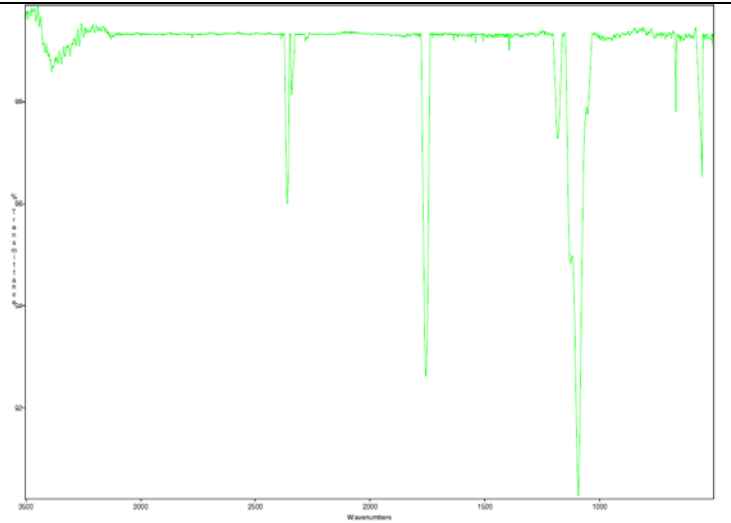


No. AK088 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (M_n 1,600:1,500:1,600 Da, 3:1 LA:GA) (Lot# 60114FAJ-A)

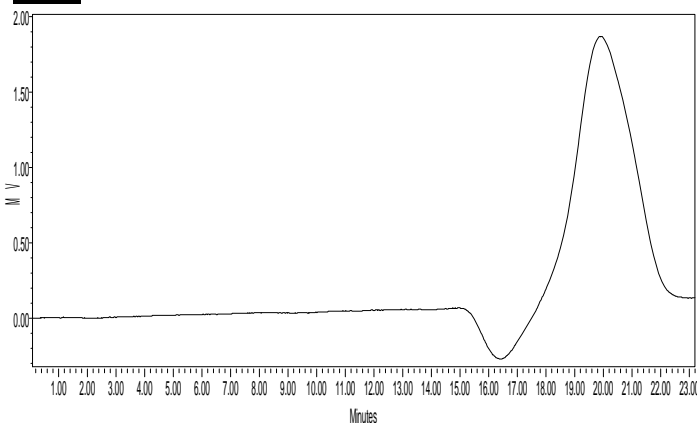


H-NMR Spectrum of PLGA-PEG-PLGA copolymer in CDCl₃ (Varian Inova 500 MHz instrument), M_n NMR of PLGA-PEG-PLGA copolymers:EG-LA/GA:1,498*-2,335/808 (EG-LA/GA residues: 34*-32/14) (*-MFG data)



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

GPC

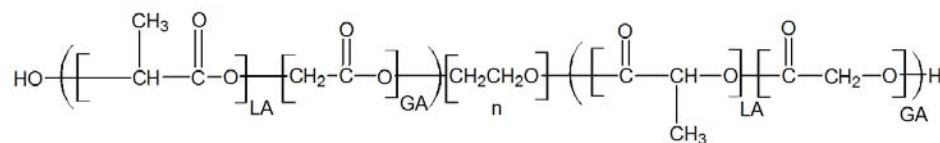


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards

Polymer	M_n (GPC)	M_w (GPC)	PDI
PLGA-PEG-PLGA	8,943	14,127	1.58
PEG precursor	$M_n - 1,485^*$		

*-MFG data

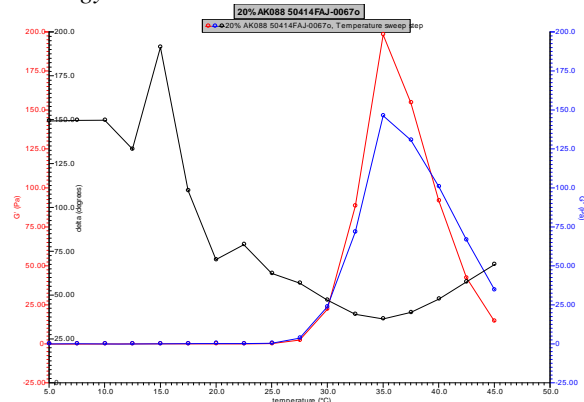
Structure



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 (1 minute 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

0.0680 Pa.s

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