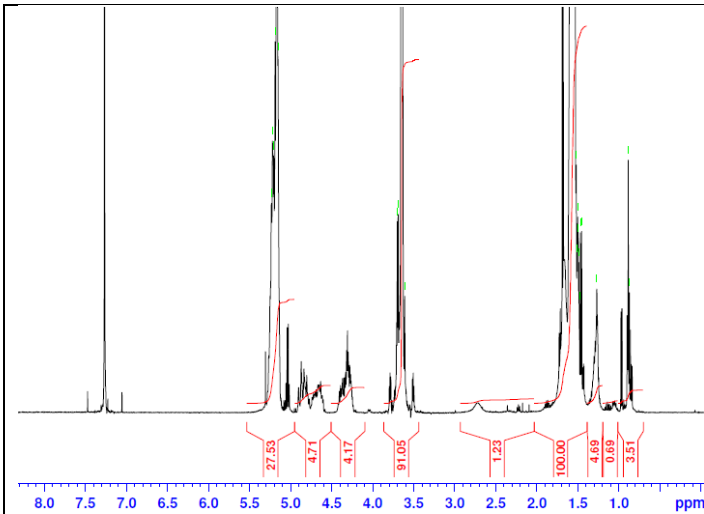


No. AK097

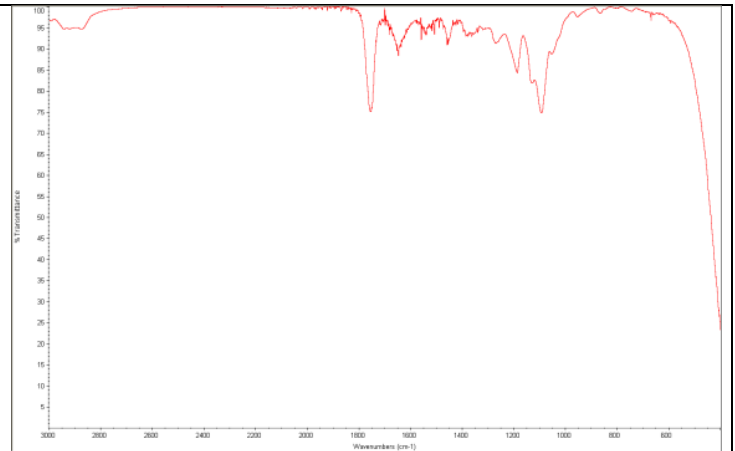
Certificate of Analysis



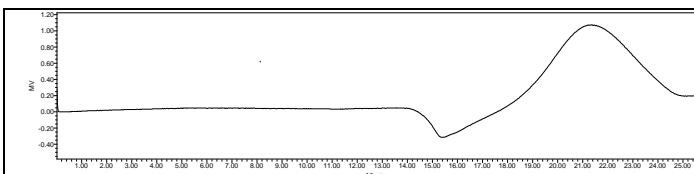
Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (15:1 LA:GA, 1,700-1,500-1,700 Da) (Lot# 61014BPR-A)



H-NMR Spectrum of PLGA-PEG-PLGA triblock copolymer in CDCl₃ (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-PLGA copolymers: EG-LA/GA: 34-41/4 (Mn: 1497-2960/204Da)



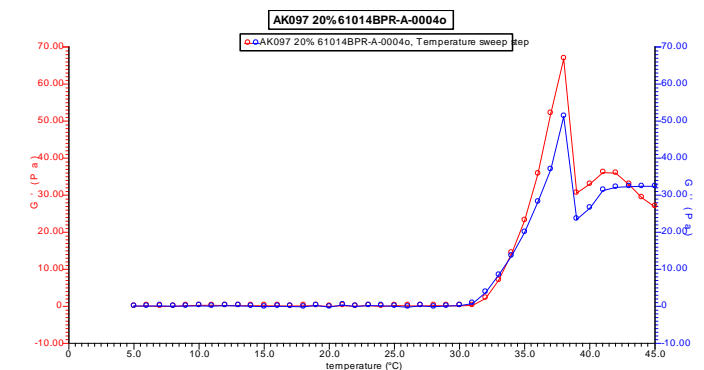
FTIR Analysis Method: Collected from cast-film on salt-plate placed in Protégé 460 Spectrometer (Nicolet) and analyzed in Transmission E.S.P. mode



Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three GPC columns (7.6 x 300 mm, mixed porosities). Detection via refractive index, calibrated against polystyrene standards.

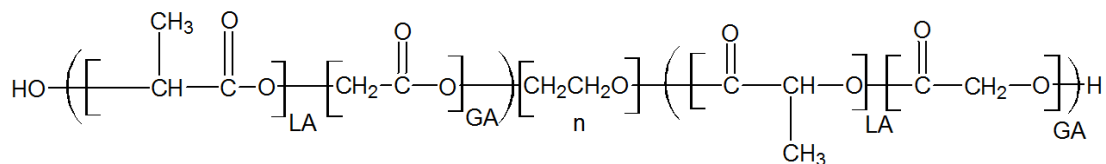
Polymer	M _n (GPC)	M _w (GPC)	PDI
PLGA-PEG-PLGA	5952	9527	1.60
PEG Precursor	Mn – 1484 Da (*MFG Data)		

Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over 3 days with stirring at 4°C. Viscosity of solution at 0.1 (sec⁻¹) and 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.



Viscosity 20% w/v solution at 5°C | 0.08147Pa/s

• Structure of PLGA-PEG-PLGA triblock copolymers



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