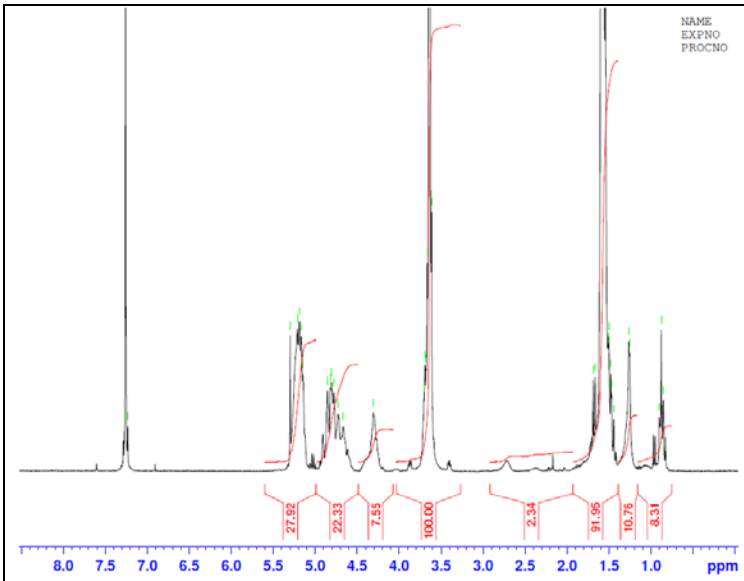
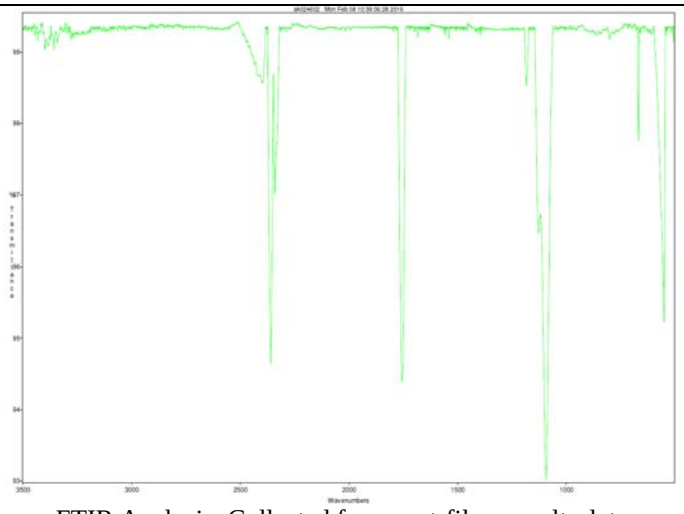
No. AK024 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (M_n ~1,100-1,000-1,100 Da, 3:1 LA:GA) (Lot# 60205AHT-A)

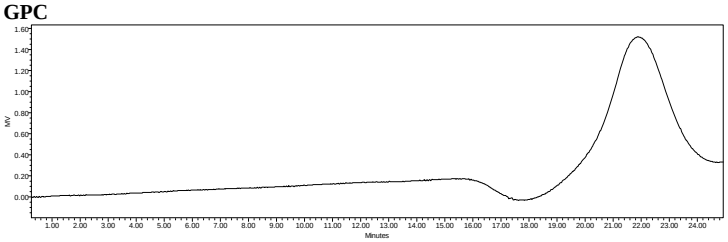


H-NMR spectrum of PLGA-PEG-PLGA triblock copolymer in CDCl3 (Varian Inova 300 MHz instrument), M_n NMR of PLGA-PEG-PLGA triblock copolymers: EG-LA/GA: 910-2130/687 Da (EG-LA/GA residues: 21-30/12)



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

GPC



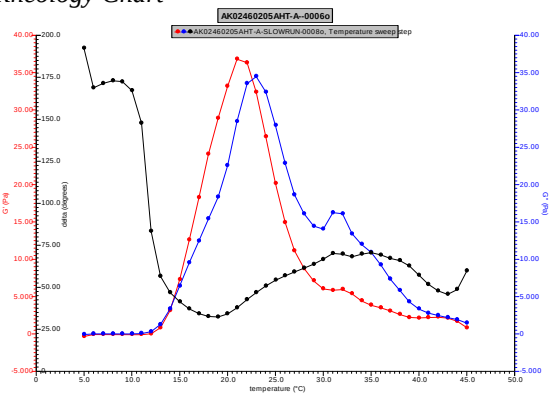
Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5 um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (GPC)	M_w (GPC)	PDI
PLGA-PEG-PLGA	4,963	6,814	1.37

Rheology

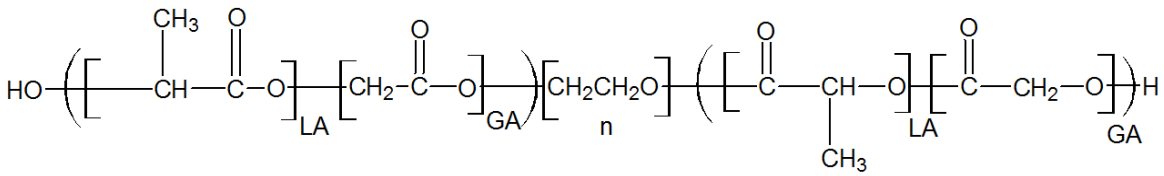
Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over two nights with stirring at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 2.5C ranging from 5-45C with 3 minutes of temperature equilibration at each point.

Rheology Chart



Viscosity 20% w/v solution at 5C	0.09084 Pa.s

- **Structure**



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