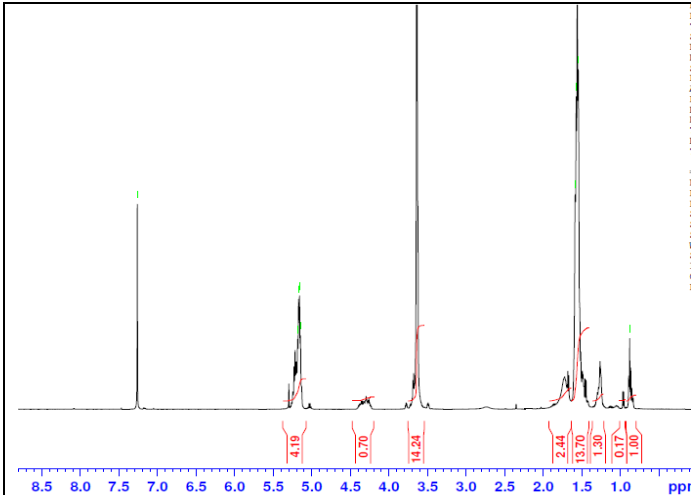


No. AK138

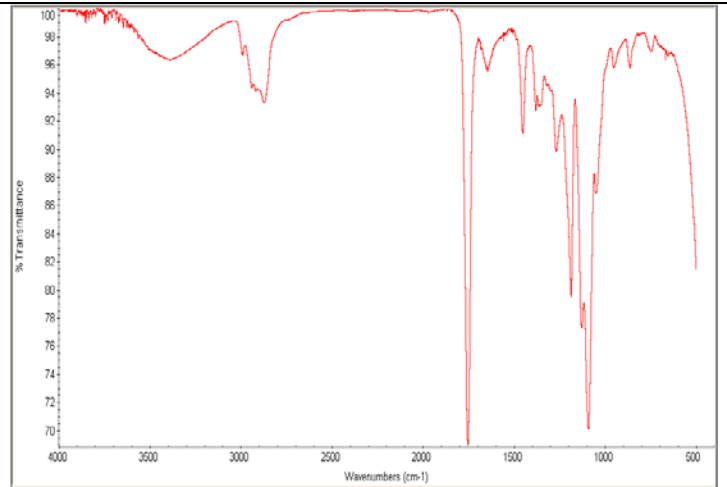
Certificate of Analysis



Product Name: Poly(D,L lactide)-b-Poly(ethylene glycol)-b-Poly(D,L lactide) (~1500-1500-1500 Da) (Lot#: 170801STR-A)

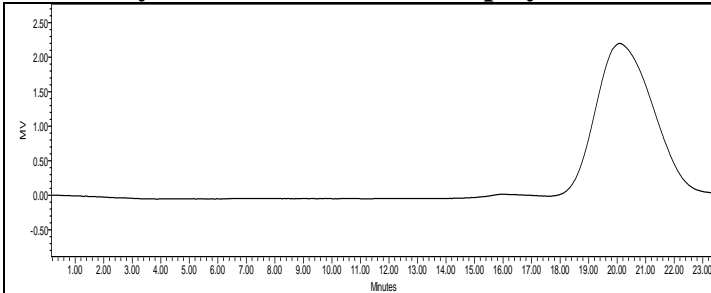


¹H-NMR Spectrum of PLA-PEG-PLA copolymers in CDCl₃ (Varian Inova 500 MHz instrument), NMR of PLA-PEG-PLA repeat units: EG-LA =34-40 (Mn EG-LA: 1498-2881)



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode. FTIR analysis of PLA-PEG-PLA copolymers

GPC analysis of PLA-PEG-PLA copolymers

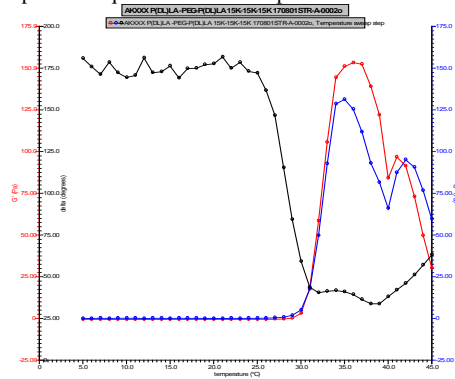


Analysis Method: Waters Breeze-2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLA-PEG-PLA	5196	6676	1.28
PEG precursor	Mn= 1484 (MFG data)		

Rheology

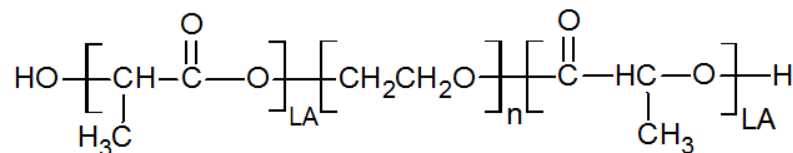
Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in distilled water dissolved over 2 days with shaking at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283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



Viscosity 20% w/v solution at 5C

0.007238 Pa.s

Structure of PLA-PEG-PLA copolymers



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

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