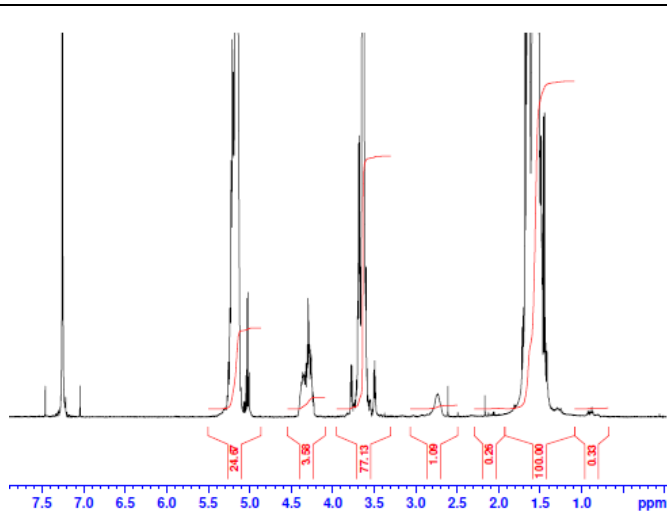
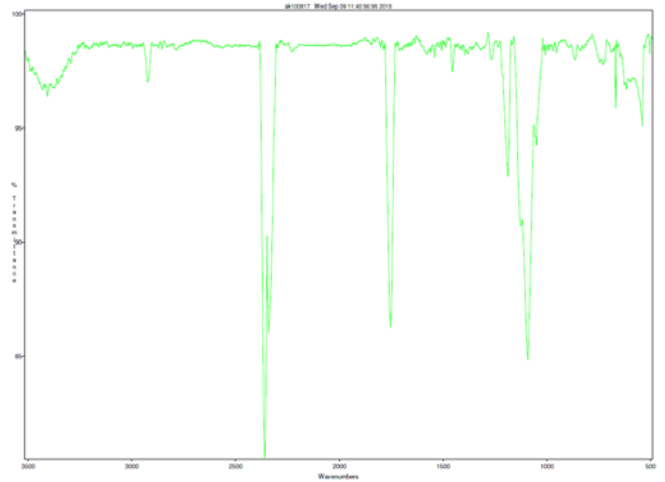


# No. AK100 Certificate of Analysis

Product Name: Poly(DL-lactide)-*b*-Poly(ethylene glycol)-*b*-Poly(DL-lactide) triblock copolymers (1,700:1,500:1,700) (Lot#: 50817SMS)

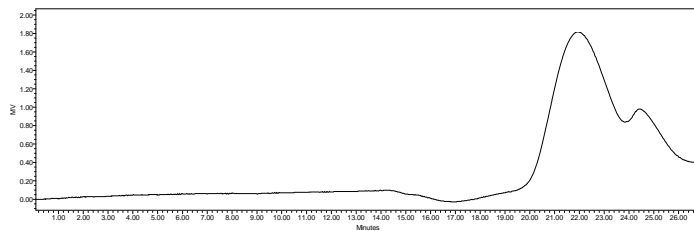


<sup>1</sup>H-NMR Spectrum of PLA-PEG-PLA copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of PLA-PEG-PLA repeat units: EG-LA = 34-43



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

## GPC analysis of PLA-PEG-PLA copolymers



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

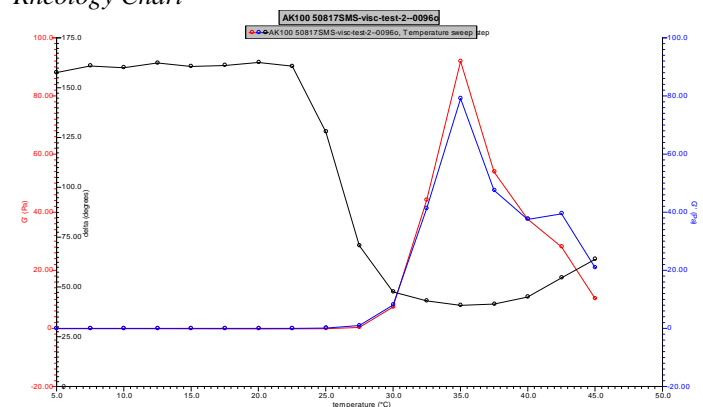
Polymer	Mn	Mw	PDI
PLA-PEG-PLA	6,675	8,131	1.22
PEG 1,500 Initiator	1,485*	-	-

\*-per MFG provided information

## Rheology analysis of PLA-PEG-PLA copolymers

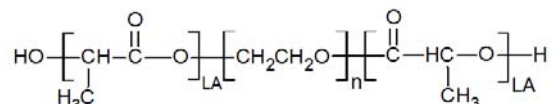
Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in distilled water dissolved over 4 days with shaking at 4 °C. Viscosity of solution at 0.1 (sec<sup>-1</sup>) and 5C was measured (1 minute peak hold 5 second test intervals). Rheology performed by oscillating at 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 | 0.01988 Pa.s

## Structure of PLA-PEG-PLA copolymers



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

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