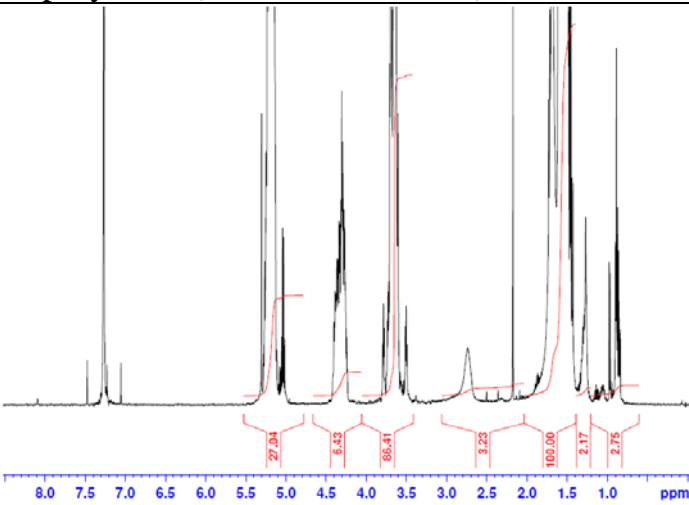


# No. AK046

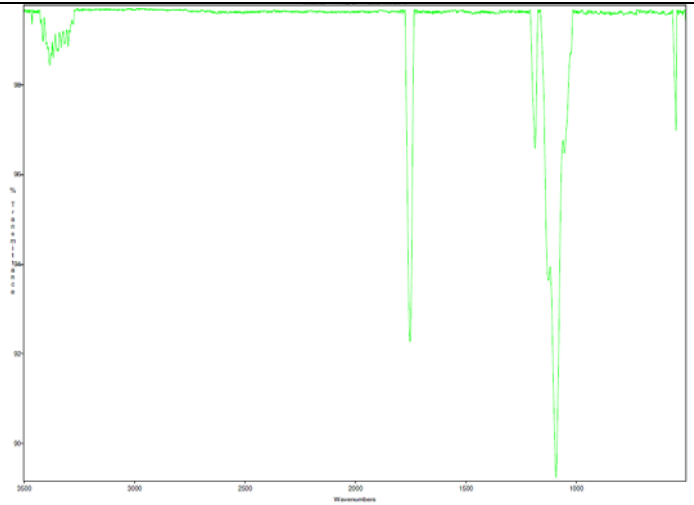
# Certificate of Analysis



Product Name: Poly(DL-lactide)-*b*-Poly(ethylene glycol)-*b*-Poly(DL-lactide) triblock copolymers (1,000:1,000:1,000) (Lot#: 60523EJF-B)

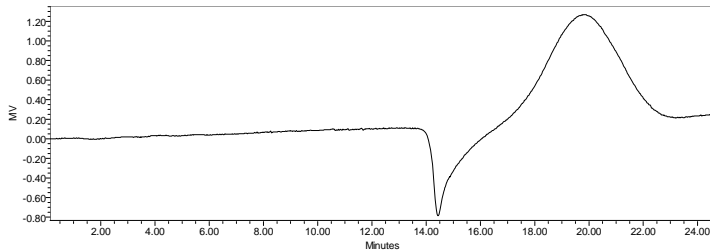


H-NMR Spectrum of PLA-PEG-PLA copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of PLA-PEG-PLA repeat units: EG/LA = 23/29 (1013/2073)



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

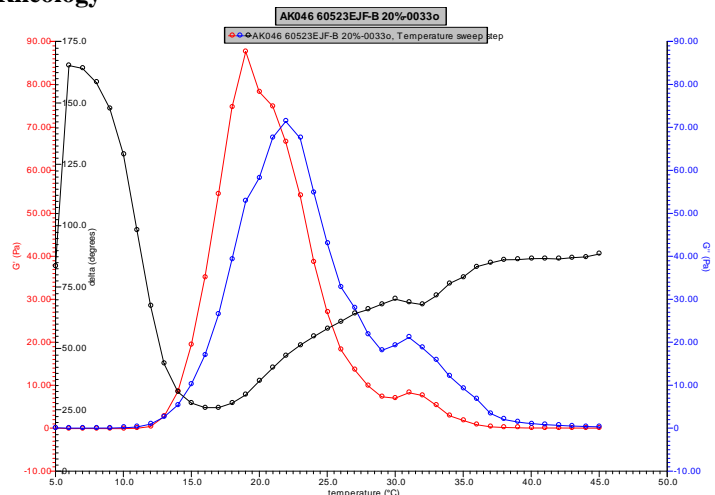
## GPC



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 <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLA-PEG-PLA	4,824	6,610	1.37
PEG1000 Initiator	1011*	1020*	1.01*

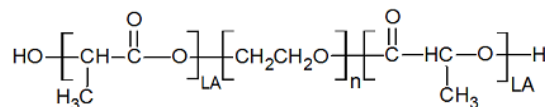
## Rheology



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<sup>-1</sup>) 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 | Below detection

## Structure of PLA-PEG-PLA copolymers



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

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