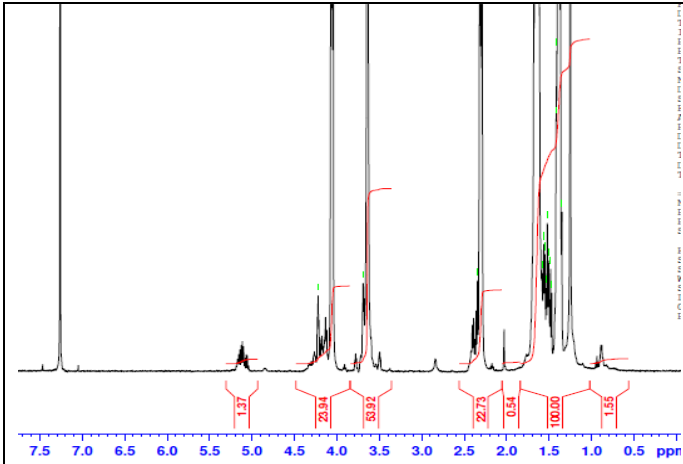


No. AK139

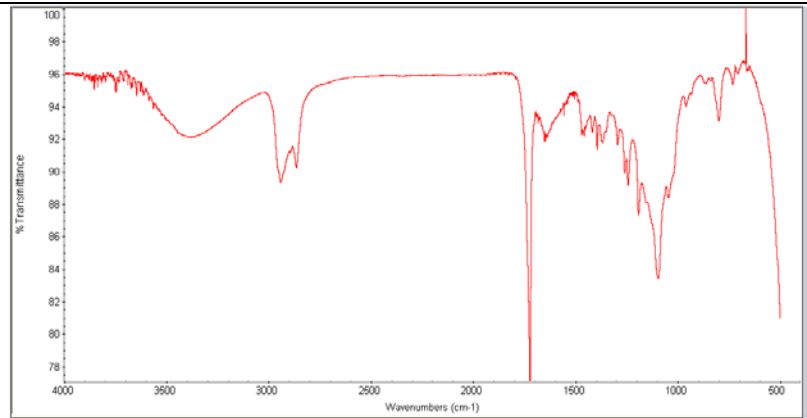
Certificate of Analysis



Product Name: Poly(lactide-co-caprolactone)-b-Poly(ethylene glycol)-b-Poly(lactide-co-caprolactone) (~1700-1500-1700 Da, 90:10 CL:LA) (Lot#: 170724NAE-A)

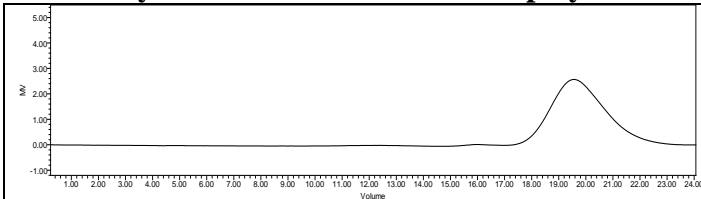


H-NMR Spectrum of PLCL-PEG-PLCL copolymers in CDCl₃ (Varian Inova 500 MHz instrument), NMR of PLCL-PEG-PLCL repeat units: EG-CL/LA = 34*-30/3 (Mn EG-CL/LA: 1498*-3446/249)



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in FTIR (Nicolette Protégé 460 ESP) and analyzed in transmission mode.

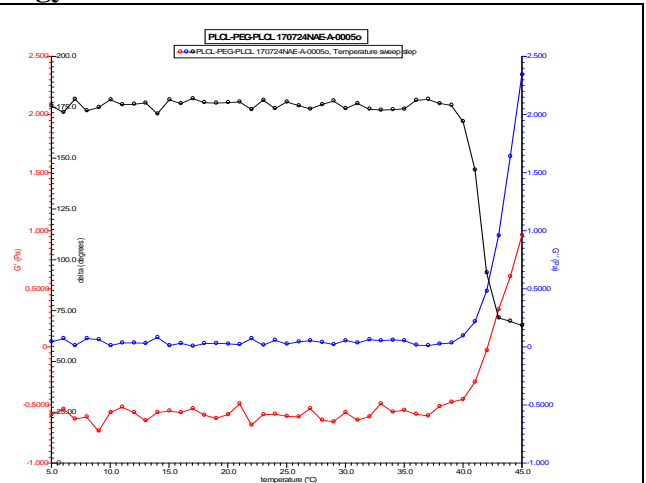
GPC analysis of PLCL-PEG-PLCL copolymers



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

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLCL-PEG-PLCL	6715	9317	1.39
PEG precursor	Mn= 1484* (* -MFG data)		

Rheology

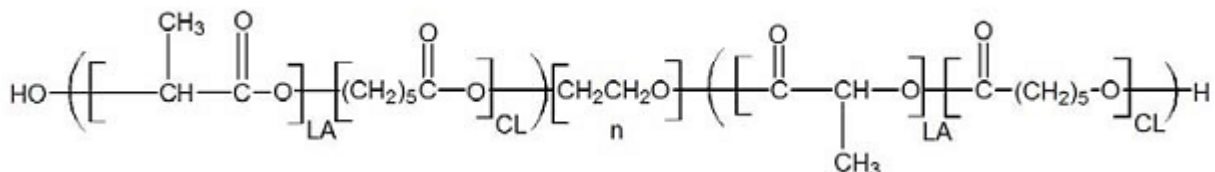


Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in distilled water dissolved with shaking at 4C. Viscosity of solution at 0.1 (sec-1) and 5C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1%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

Viscosity 20% w/v solution at 5C

0.01352 Pa.s

Structure of PLCL-PEG-PLCL copolymers



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

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