No. AK140

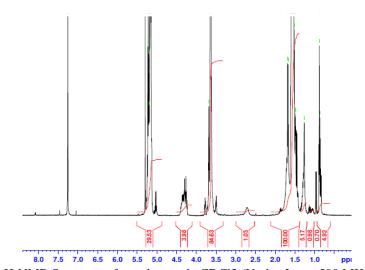
Certificate of Analysis



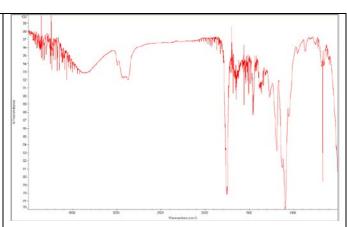
Product Name:

Poly(DL-lactide)-*b*-Poly(ethylene glycol)-*b*-Poly(DL-lactide) triblock copolymers

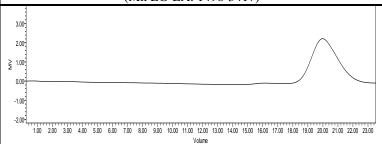
(1,750:1,500:1,750) (Lot#: 170919AHT-A)



H-NMR Spectrum of copolymers in CDCl3 (Varian Inova 500 MHz instrument) NMR of PLA-PEG-PLA repeat units: EG-LA =34:47 (Mn EG-LA: 1498-3417)

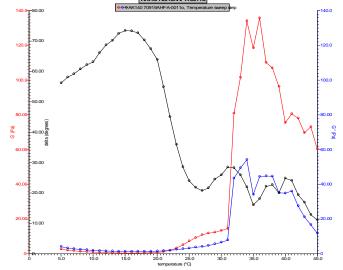


FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Protégé 460 spectrometer (Nicolet) and analyzed in transmission E.S.P. mode.



GPC 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	M_n (from	M _w (from	PDI
	GPC)	GPC)	
PDLLA-PEG-	5883	7235	1.23
PDLLA	3003	1233	1.23



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 $^{-1}$) 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 1°C ranging from 5-45°C with 1 minutes of temperature equilibration at each point.

Viscosity 20% w/v solution at 5°C 4.932 Pa/s

Structure of PLA-PEG-PLA copolymers: