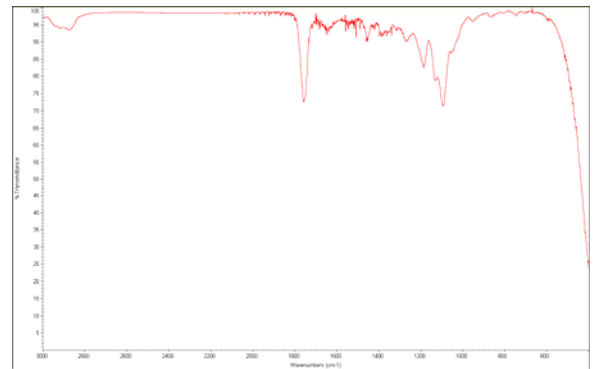
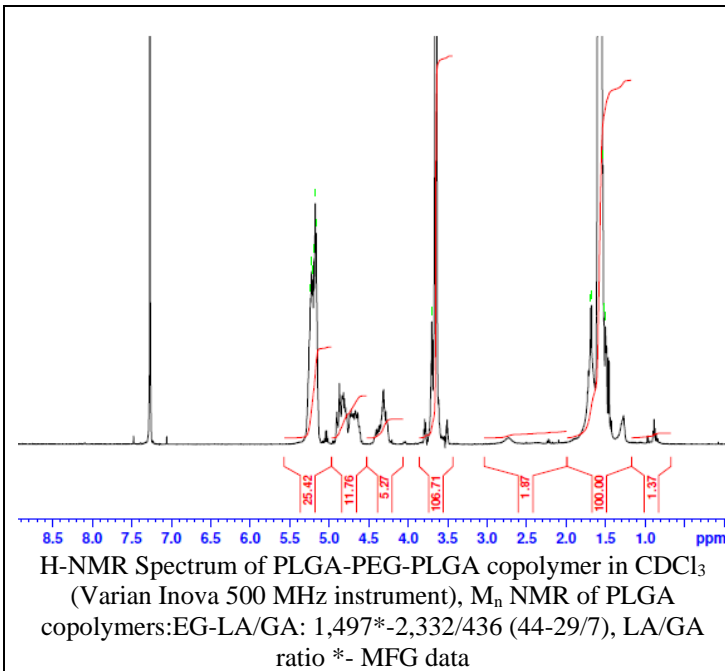


# No. AK091

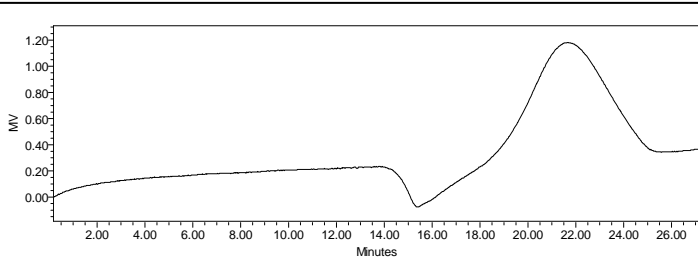
# Certificate of Analysis



Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers ( $M_n$  1,500:1,500:1,500 Da, 6:1, LA:GA) (Lot# 60926SMS-A)



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

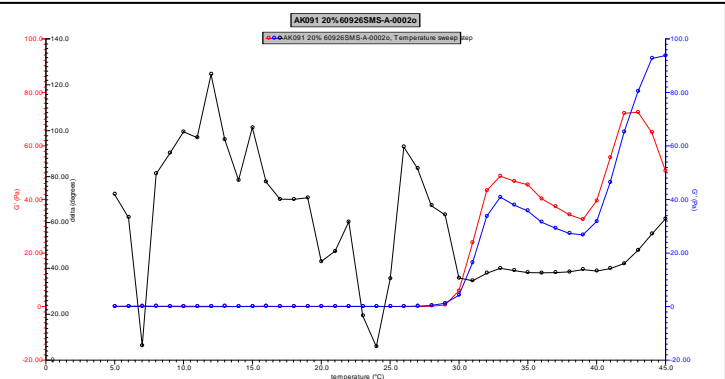


GPC Analysis Method:

Waters Breeze 2 system with 1 ml/min DCM flow across three GPC columns (7.6 x 300 mm, mixed porosities). Detection via refractive index, calibrated against polystyrene standards.

Polymer	$M_n$ (GPC)	$M_w$ (GPC)	PDI
PLGA-PEG-PLGA	4,838	11,785	2.43
PEG precursor*		1,484	

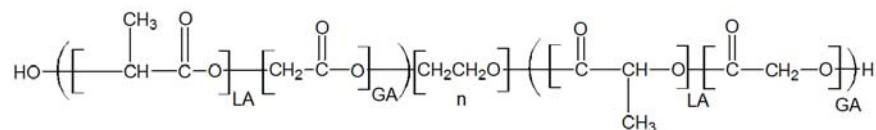
\*Data provided by MFG.



Rheology performed on AR550 (TA instruments) with 60 mm 2 degree cone on 20% w/v polymer in water dissolved overnight with stirring at 4 °C. Viscosity of solution at 0.1 ( $sec^{-1}$ ) and 5 °C 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.

Viscosity 20% w/v solution at 5°C 1.368 Pa.s

## • Structure of PLGA-PEG-PLGA copolymer



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