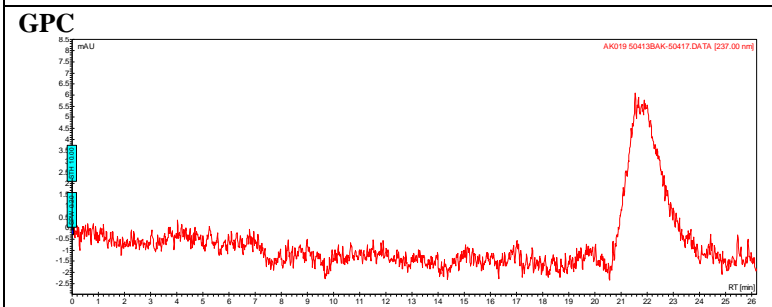
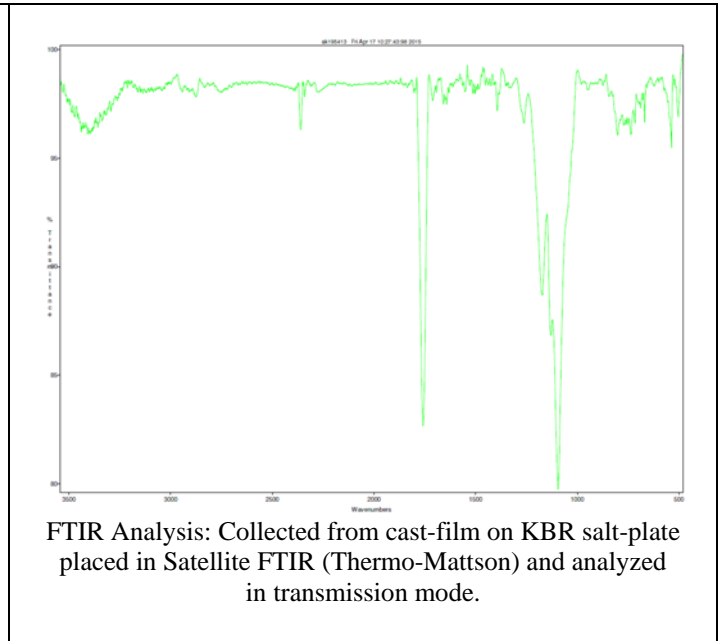
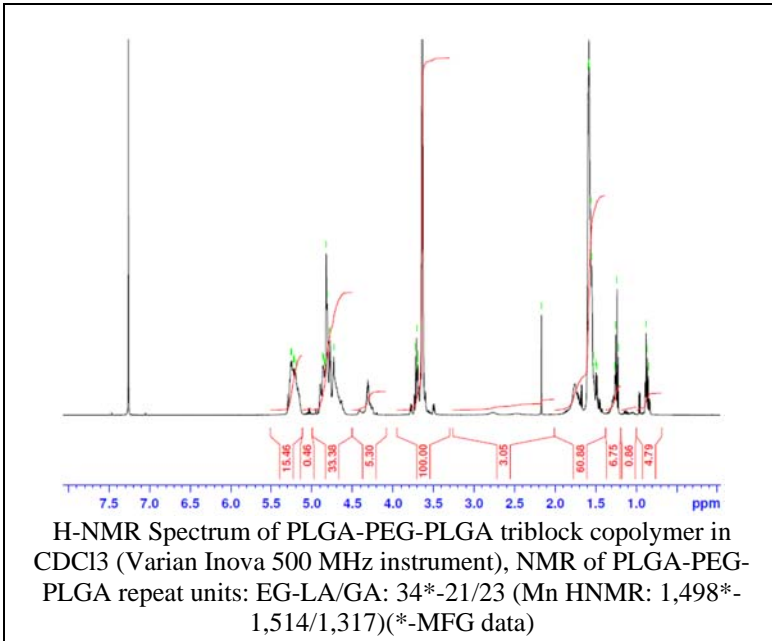


No. AK019 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) copolymers (1,500-1,500-1,500,1:1 LA:GA) (Lot# 50413BAK)

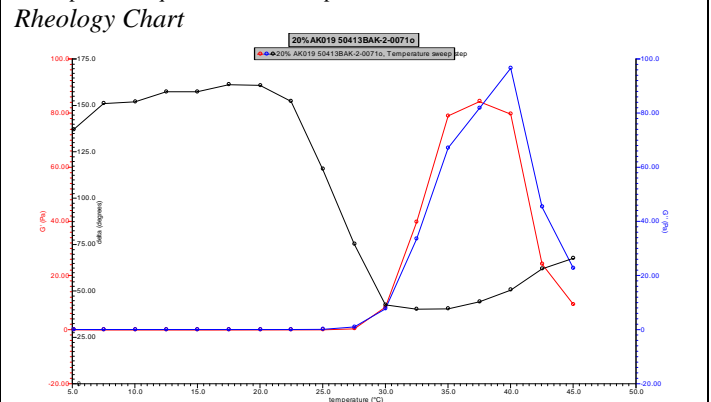


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 μm columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	Mn (GPC)	Mw (GPC)	PDI
PLGA-PEG-PLGA	5,075	6,363	1.25
PEG precursor	Mn - 1485*		

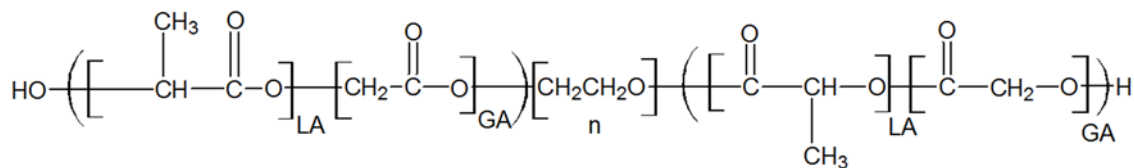
*- MFG provided data.

Rheology
 Rheology performed on AR550 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in distilled water dissolved over 2 days 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 2.5C ranging from 5-45C with 3 minutes of temperature equilibration at each point.



Viscosity 20% w/v solution at 5C | 0.0553 Pa.s

• **Structure of PLGA-PEG-PLGA triblock copolymers**



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