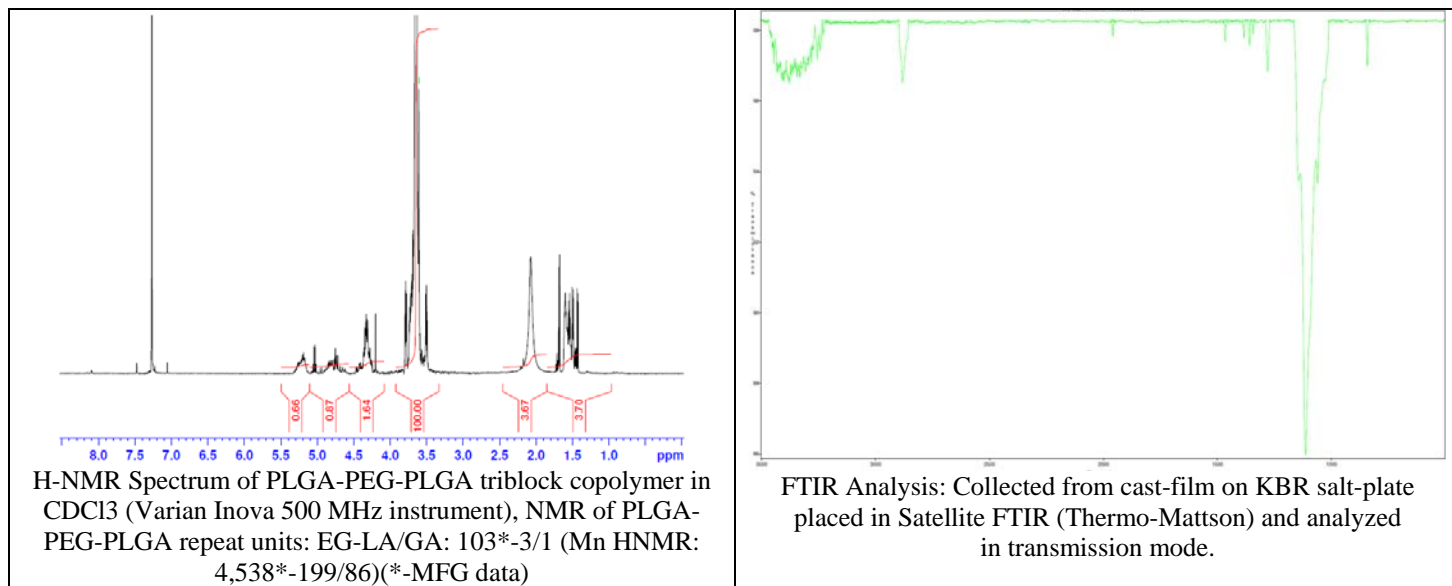
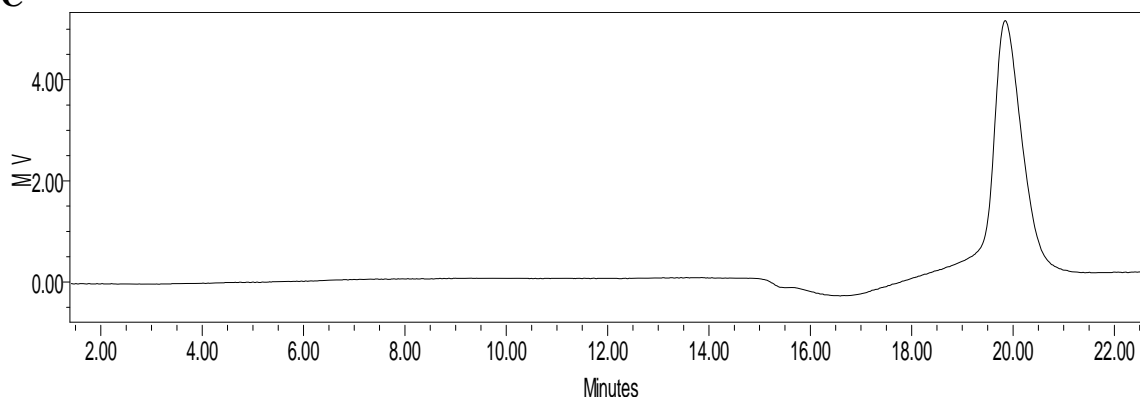


No. AK123 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic acid)-*b*-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic acid) Dialcohol copolymers, (Mw ~ 270,5,000:270 Da, LA:GA 75:25) (Lot# 60613BPR-A)



- GPC**

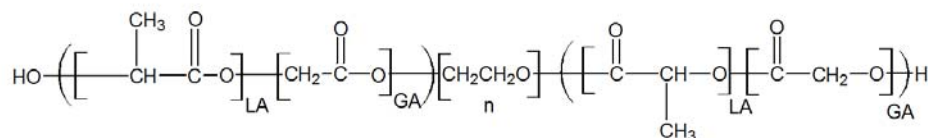


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three 300x7.6 mm GPC columns (mixed porosities). Detection via refractive index, calibrated against polystyrene standards.

Polymer	Mn (GPC)	Mw (GPC)	PDI
PLGA-PEG-PLGA Dialcohol	5825	6201	1.06
PEG precursor	Mn - 4,536*		

*- MFG provided data.

- Structure of PLGA-PEG-PLGA Dialcohol copolymer**



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