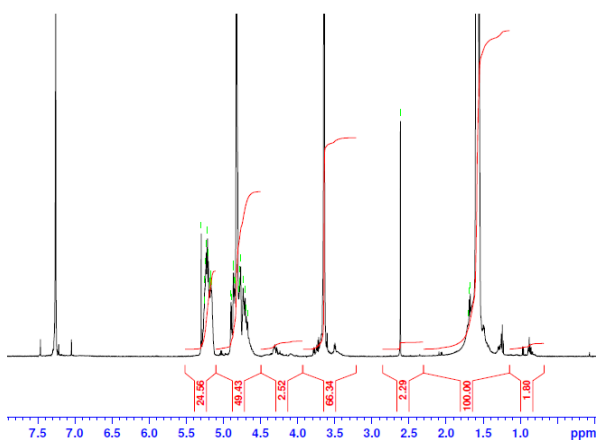
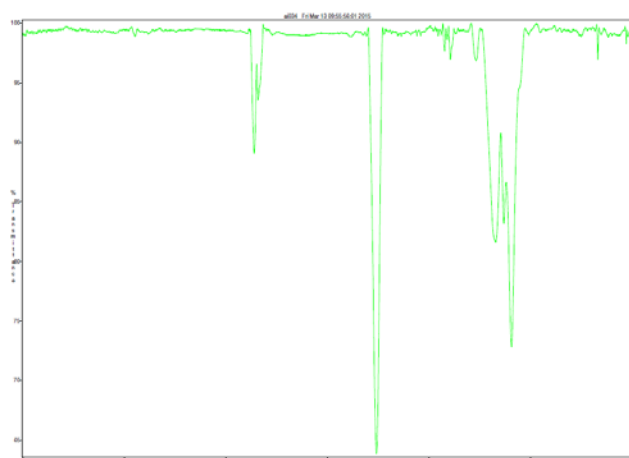


No. AI034 Certificate of Analysis

Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-carboxylic acid endcap
 (~17,000 Da-3,400 Da) (Lot#: 50306JSG) (REV:A)

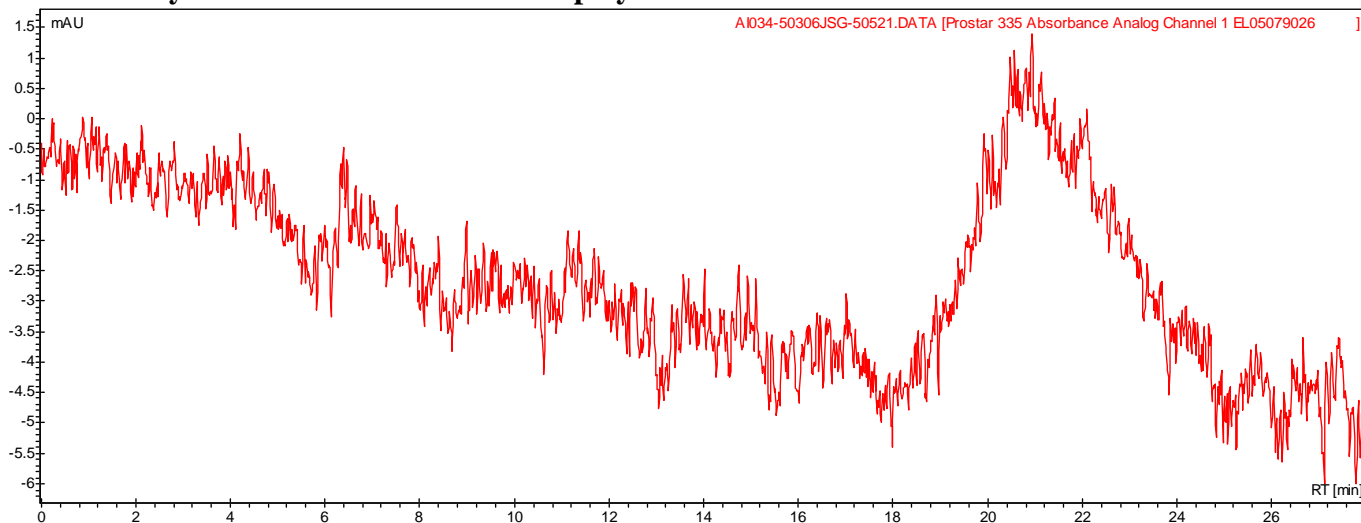


H-NMR Spectrum of PLGA-PEG-COOH copolymer in CDCl₃
 (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-COOH
 repeat units: EG-LA/GA = 75*-111/107 (Mn = 3,304*-7,997/6,224
 Da)



FTIR Analysis: Collected from cast-film on salt-plate placed
 in Satellite FTIR (Thermo-Mattson) and
 analyzed in transmission mode.

• GPC analysis of PLGA-PEG-COOH copolymers

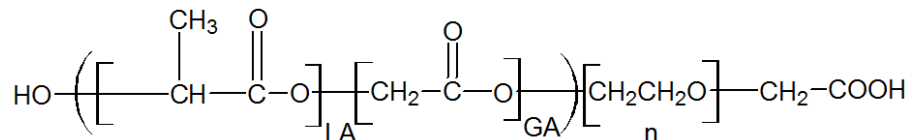


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 μm columns and one PLgel Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLGA-PEG-COOH	10,925	22,983	2.10
HO-PEG-COOH*	Average M _n by GFC -3,300*		

* - data provided by MFG

• Structure of PLGA-PEG-COOH copolymers



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