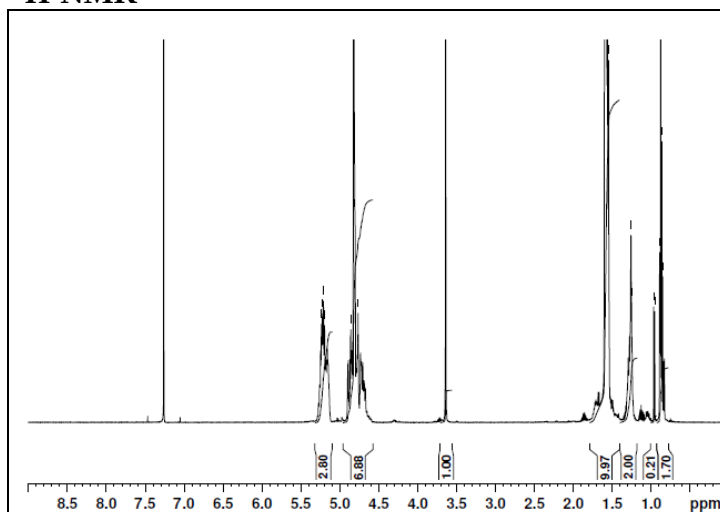


No. AI80 Certificate of Analysis

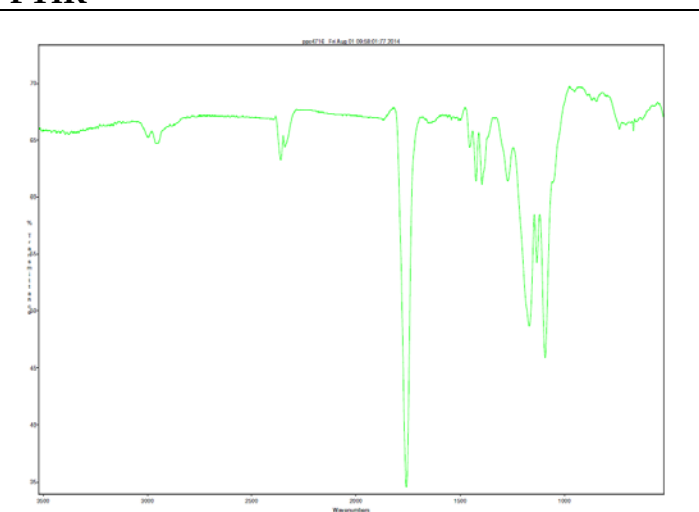
Product Name: Poly(lactide-co-glycolide)-*b*-Poly(ethylene glycol)-Carboxylic acid endcap
($M_w \sim 70,000$ -2,000 Da, 50:50 LA:GA) (Lot#: 40716JSG)

H-NMR



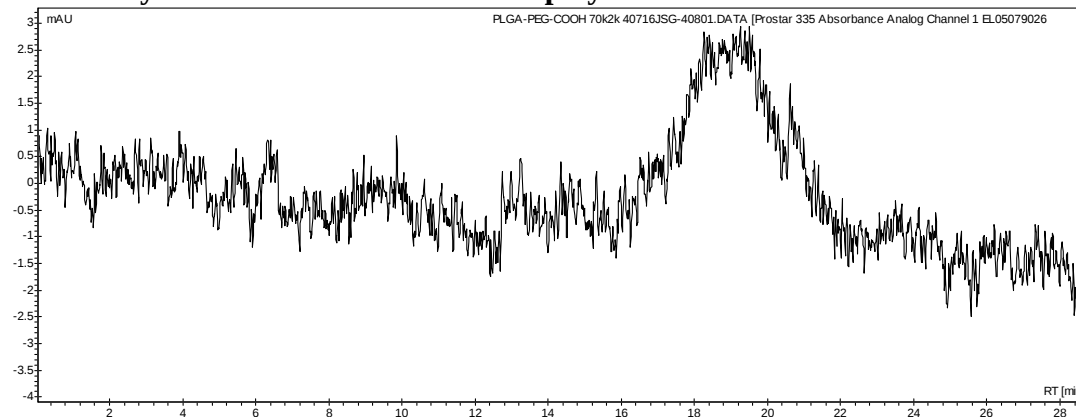
H-NMR Spectrum of PLGA-PEG-COOH copolymer in $CDCl_3$ (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-COOH repeat units: EG-LA/GA = 48*-538/660 (2115*-38,334/38,707Da) (*-Data from MFG)

FTIR



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

• GPC analysis of PLGA-PEG-COOH copolymers

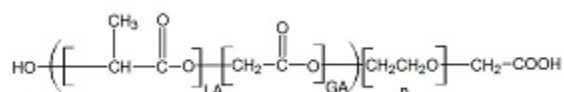


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 μ m columns and one PLgel Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-COOH	46495	78,286	1.68
HO-PEG-COOH*	Average M_n by GFC – 2,100 Da*		

*-data provided by MFG

• Structure of PLGA-PEG-COOH copolymers



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