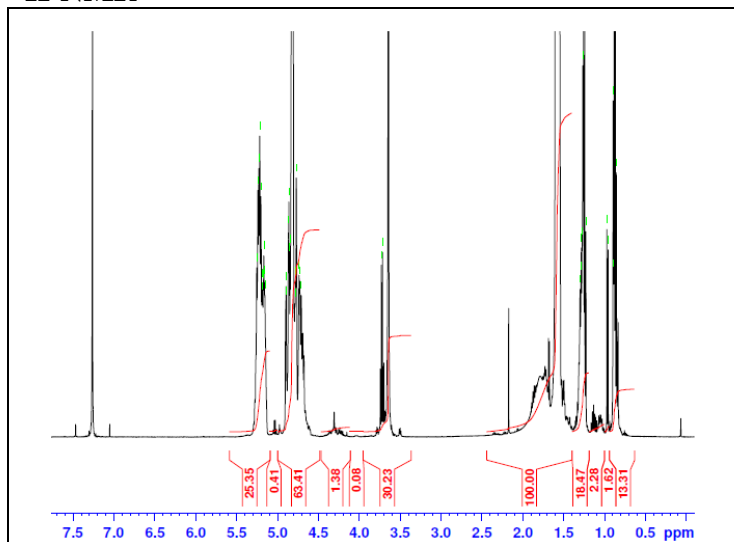


# No. AI76 Certificate of Analysis

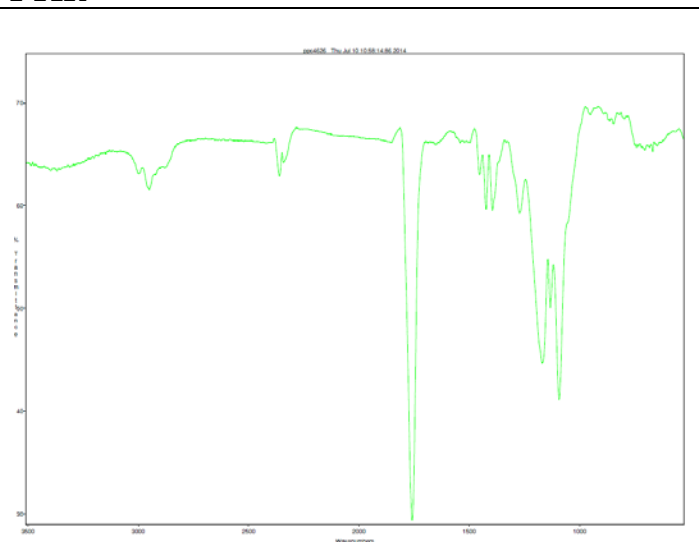
Product Name: Poly(lactide-co-glycolide)-*b*-Poly(ethylene glycol)-carboxylic acid endcap  
( $M_w \sim 40,000-5,000$  Da, 50:50 LA:GA) (Lot#: 40626JSG)

## H-NMR



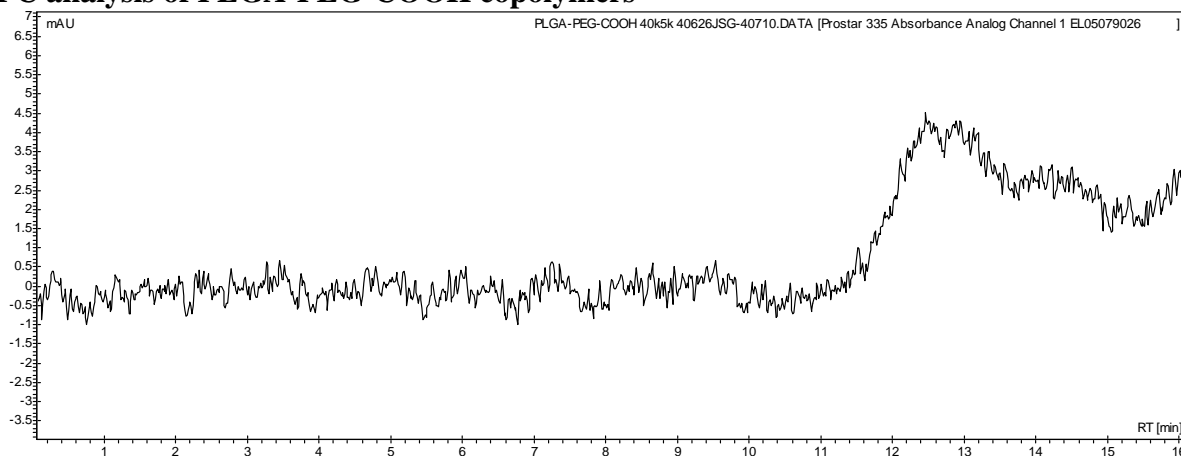
H-NMR Spectrum of PLGA-PEG-COOH copolymer in  $CDCl_3$  (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-COOH repeat units: EG-LA/GA = 114\*-382/478 (5022\*-27532/27758 Da) (\*-Data from MFG)

## 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

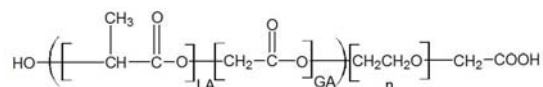


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel  $5\mu m$  columns and one PLgel Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
PLGA-PEG-COOH	33,397	50,087	1.50
HO-PEG-COOH*	Average $M_n$ by GFC – 5,000 Da*		

\*-data provided by MFG

## • Structure of PLGA-PEG-COOH copolymers



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