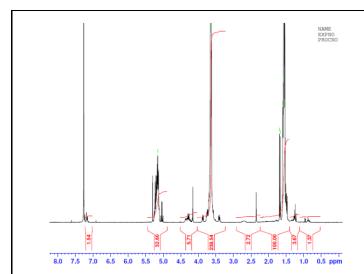
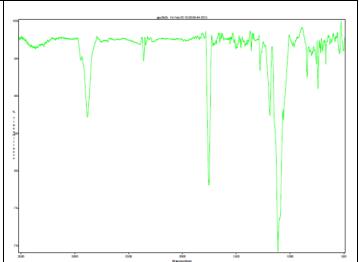
No. A105 Certificate of Analysis

Product Name: Poly(D,L-lactide)-*b*-Poly(ethylene glycol)-Carboxylic acid endcap (M_w ~2,000-2,000 Da) (Lot#: 50216JSG)

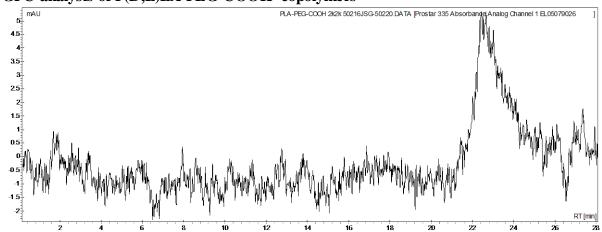


H-NMR Spectrum of P(D,L)LA-PEG-COOH copolymer in CDCl₃ (Varian Inova 300 MHz instrument), NMR of PLGA-PEG-COOH repeat units: EG-LA = 48*-26 (2,115*-1,889 Da) (*-Data from MFG)



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

• GPC analysis of P(D,L)LA-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
P(D,L)LA-PEG-COOH	2880	4028	1.40
HO-PEG-COOH*	Average M _n by GFC – 2,100 Da*		

^{*-}data provided by MFG

• Structure of P(D,L)LA-PEG-COOH copolymers

$$\begin{array}{c} O \\ HO - C - R - CH_2CH_2O - CH_2CH_2O - CH_3CH_3 \end{array}$$

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