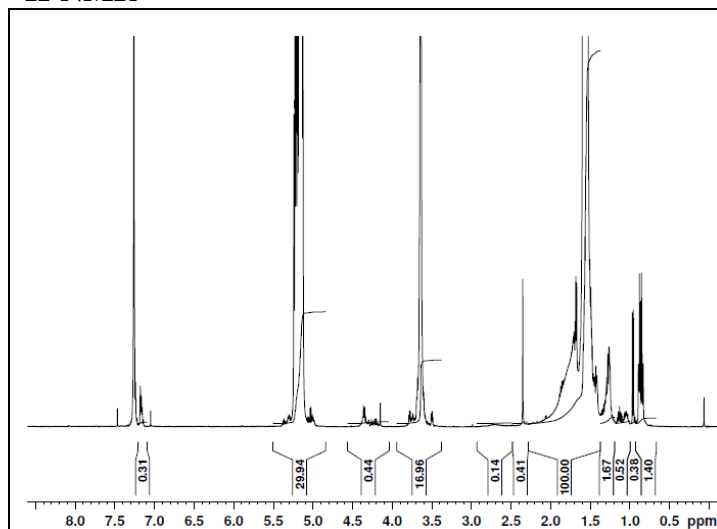


No. AI23

Certificate of Analysis

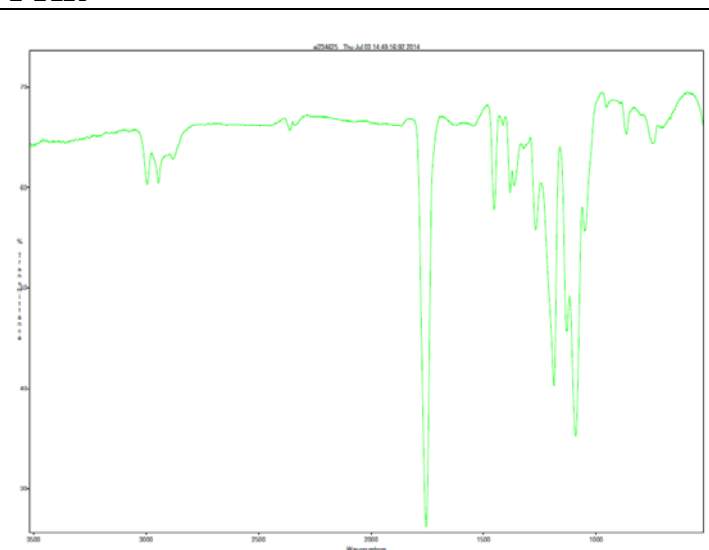
Product Name: Poly(D,L-lactide)-b-Poly(ethylene glycol)- carboxylic acid copolymers (55,000-5,000 Da) (Lot#: 40625JSG)

H-NMR



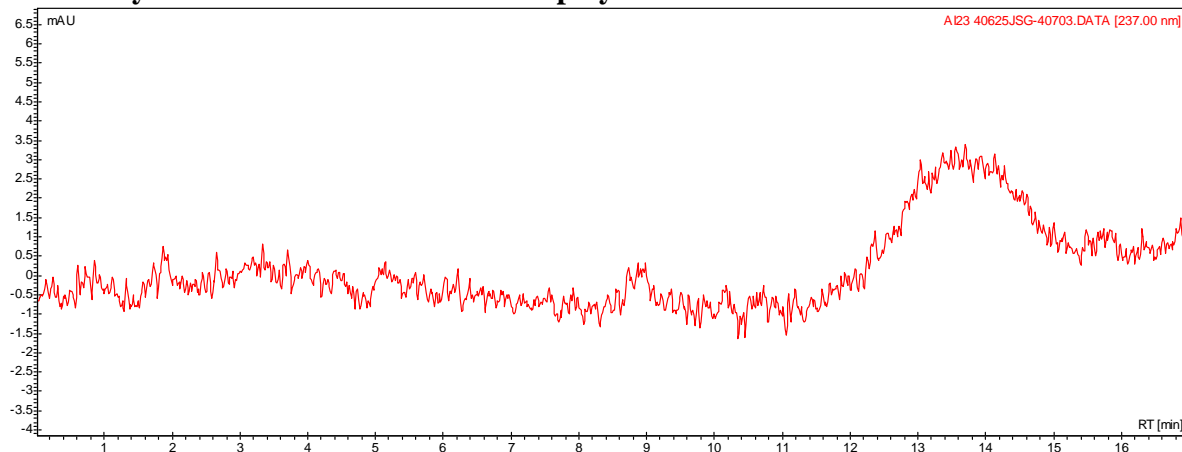
H-NMR Spectrum of PLGA-amine copolymers in CDCl₃ (Varian Inova 500 MHz instrument), NMR of PDLLA-PEG-COOH repeat units: EG-LA = 113-798, Mn: EG-LA = 4978*-57,451 *Data provided by MFG (purity HNMR: 98%)

FTIR



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

• GPC analysis of PDLLA-PEG-COOH copolymers

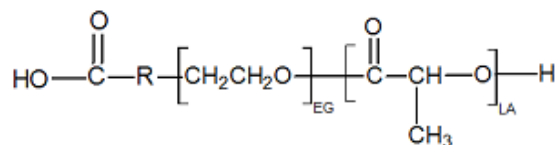


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5µm columns and one PLgel Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PDLLA-PEG-COOH	32,059	71,481	2.23
HO-PEG-COOH	M _n by GFC – 5000*		

*Data provided by MFG.

• Structure of PDLLA-PEG-COOH copolymers



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