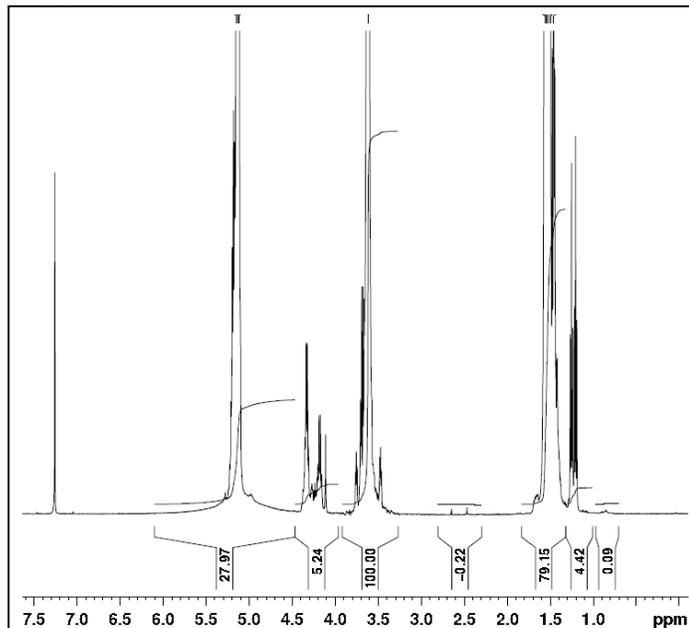


# No. AI54 Certificate of Analysis

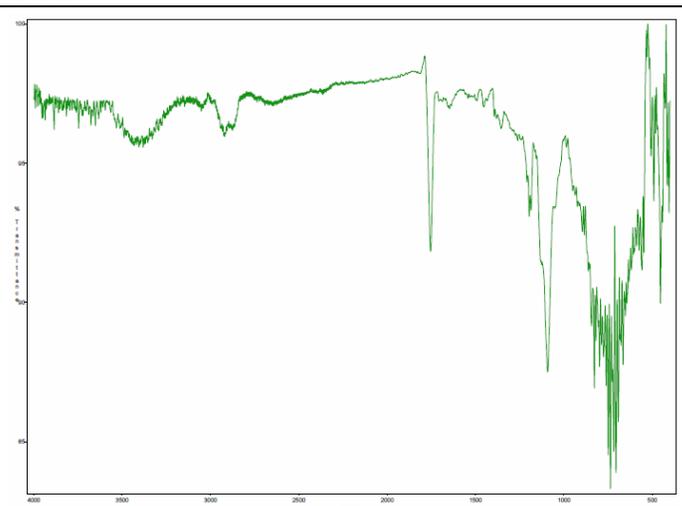
Product Name: Poly((D,L)lactide)-*b*-Poly(ethylene glycol)-carboxylic acid copolymers  
 (~8000:5,000Da) (Lot#: 30829JSG)

## HNMR



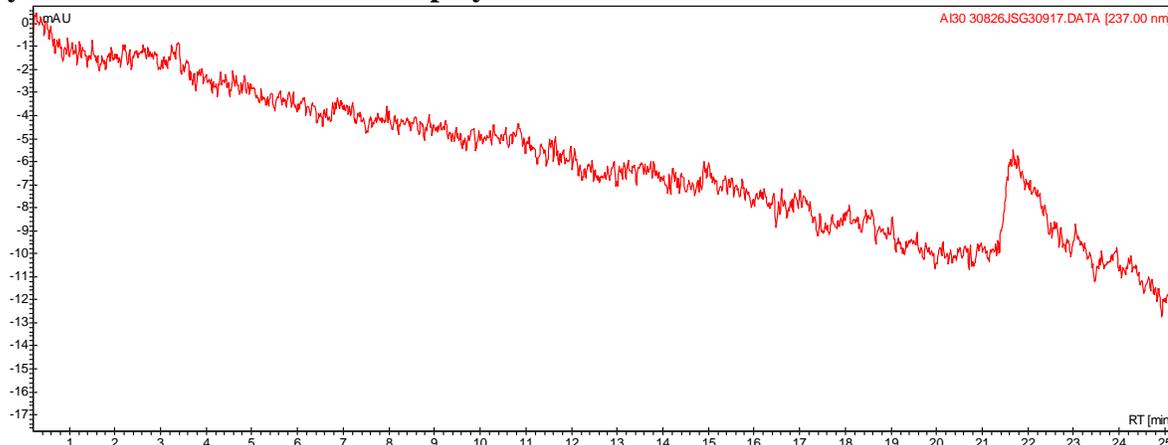
H-NMR Spectrum of PDLLA-PEG-COOH copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of PDLLA-PEG-COOH repeat units: EG-LA = 114\*-121 (NMR-MnPEG-PLA: 5022-8726)

## 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 5μ columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PDLLA-PEG-COOH	11944	13279	1.11
PEG5000 initiator	Mp- per MFG COA*5000		

\* - These values based on MFG provided COA for the PEG initiator portion.

## • Structure of PDLLA-PEG-COOH copolymers

