No. AI020   Certificate of Analysis
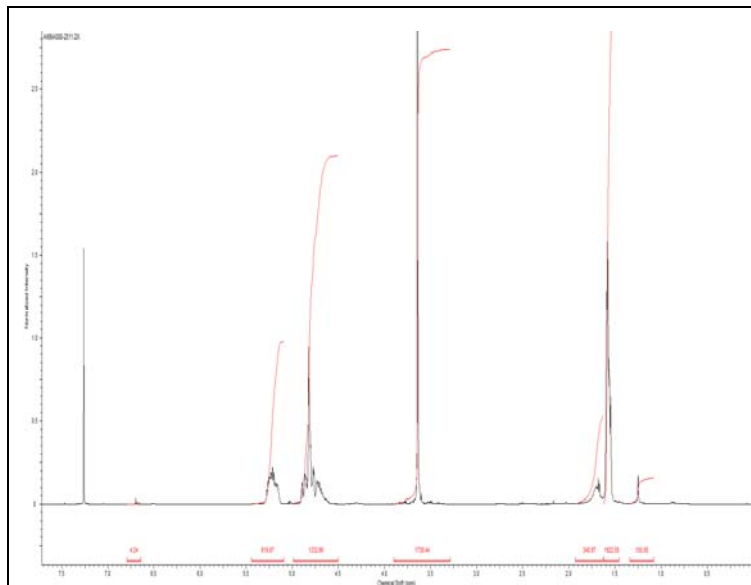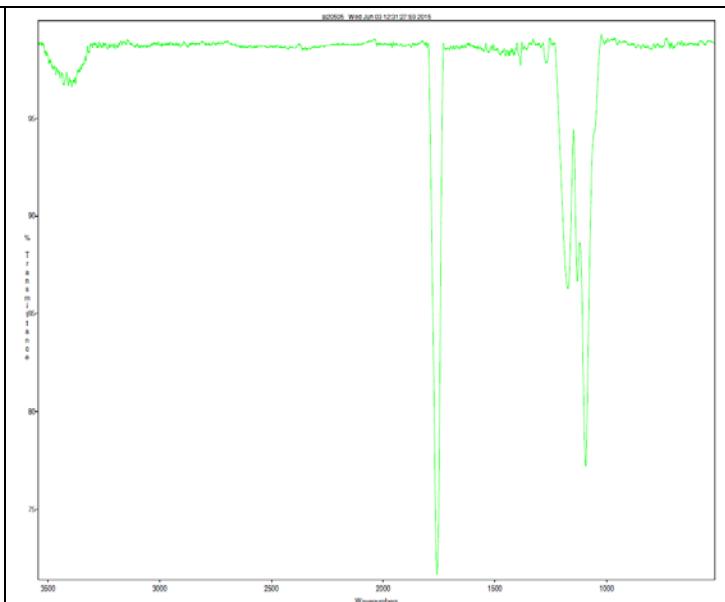
Product Name: Poly(lactic-co-glycolic)-b-Poly(ethylene glycol)-Maleimide copolymers
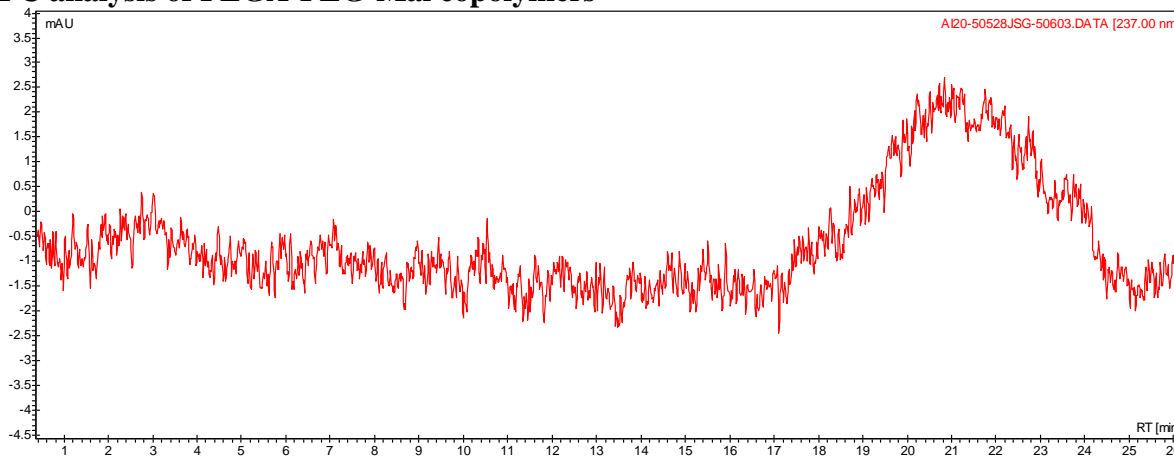(M_w ~20,000-5,000Da) (Lot#: 50528JSG)

H-NMR Spectrum of PLGA-PEG-Mal copolymers in CDCl$_3$ (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-Mal repeat units: EG-LA/GA = 102*-145/156 (M_n EG-LA/GA = 4,493*-10,474/9,076) *Data provided by manufacturer

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

- **GPC analysis of PLGA-PEG-Mal copolymers**

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

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-Mal	8,491	23,875	2.81
PEG Precursor	Average M_n by GFC - 4500*		

*-data provided by manufacturer

- **Structure of PLGA-PEG-Mal copolymers**