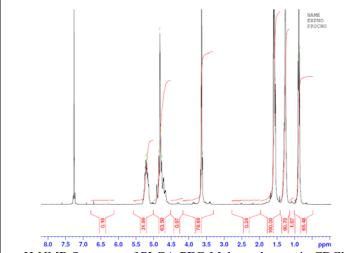
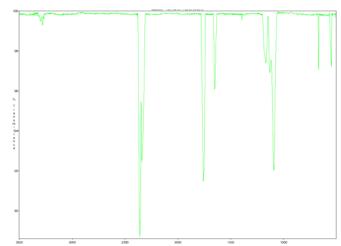


No. AI020 Certificate of Analysis

Product Name: Poly(lactic-co-glycolic)-b-Poly(ethylene glycol)-Maleimide copolymers (M_w ~20,000-5,000Da) (Lot#: 60128JSG-A-D) (*re-purified*)

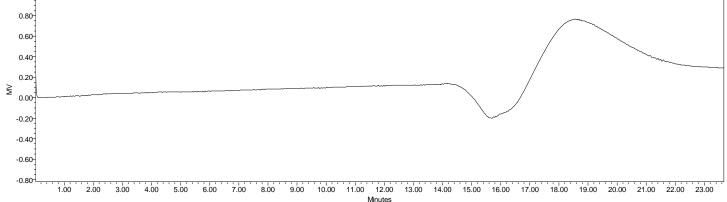


H-NMR Spectrum of PLGA-PEG-Mal copolymers in CDCl₃ (Varian Inova 300 MHz instrument), NMR of PLGA-PEG-Mal repeat units: EG-LA/GA = 103*-168/166 (M_n EG-LA/GA = 4,538*-12,073/9,659) *- Data provided by manufacturer



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





Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	Mw (from GPC)	PDI
PLGA-PEG-Mal	26,413	48,126	1.82
PEG Precursor	M _n by GFC - 4500*		

^{*-}data provided by manufacturer

• Structure of PLGA-PEG-Mal copolymers