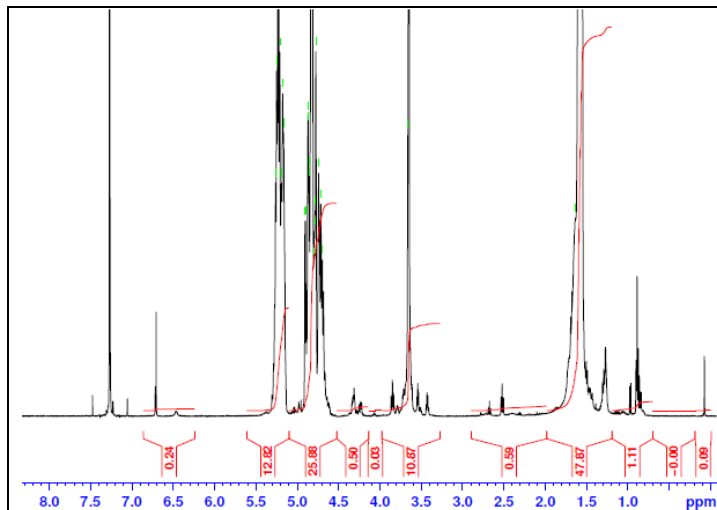


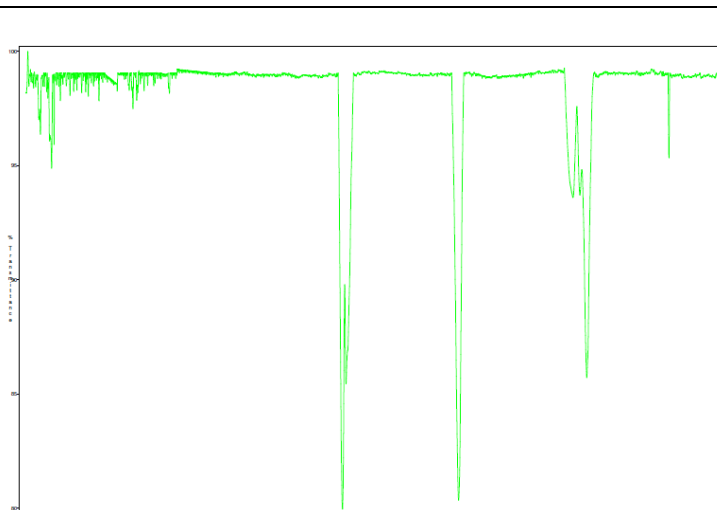
No. AI142

Certificate of Analysis

Product Name: Poly(lactic-co-glycolic)-b-Poly(ethylene glycol)-Maleimide copolymers
($M_w \sim 20,000-1,000\text{Da}$) (Lot#: 60628DWW-A)

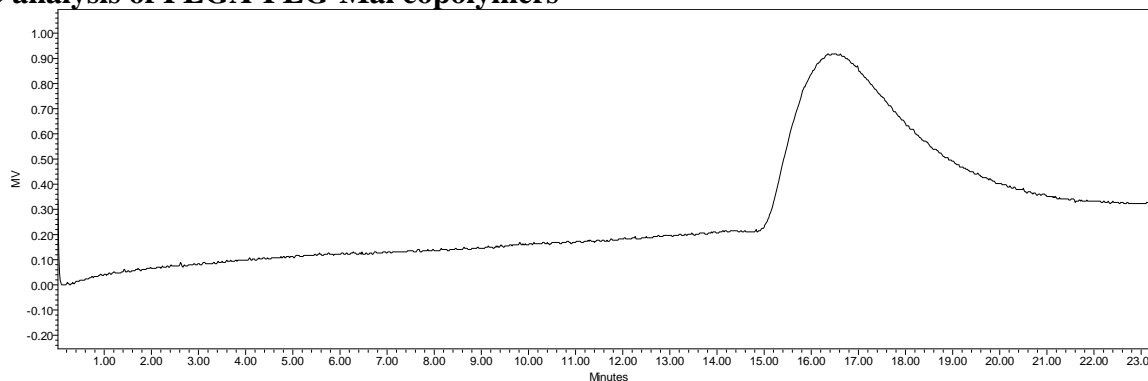


$^1\text{H-NMR}$ Spectrum of PLGA-PEG-Mal copolymers in CDCl_3 (Varian Inova 300 MHz instrument), NMR of PLGA-PEG-Mal repeat units: EG-LA/GA = 25*-113/114 (M_n EG-LA/GA = 1,101*-8492/6909) *- Data provided by manufacturer



FTIR Analysis: Collected from cast-film on salt-plate placed in Nicolet Protégé Model 460 E.S.P. and analyzed in transmission mode.

• GPC analysis of PLGA-PEG-Mal copolymers

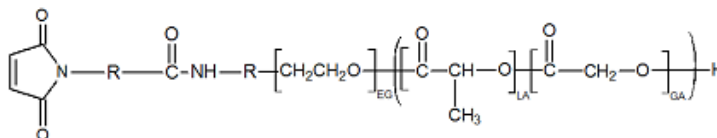


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three GPC columns (7.6 x 300 mm). Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-Mal	22,781	54,666	2.40
PEG Precursor	M_n by GFC – 1,080*		

*-data provided by manufacturer

• Structure of PLGA-PEG-Mal copolymers



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