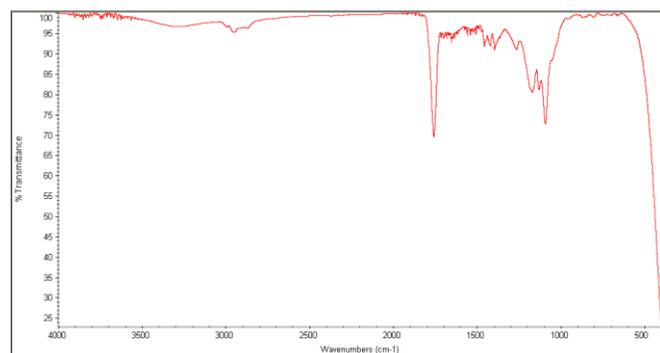
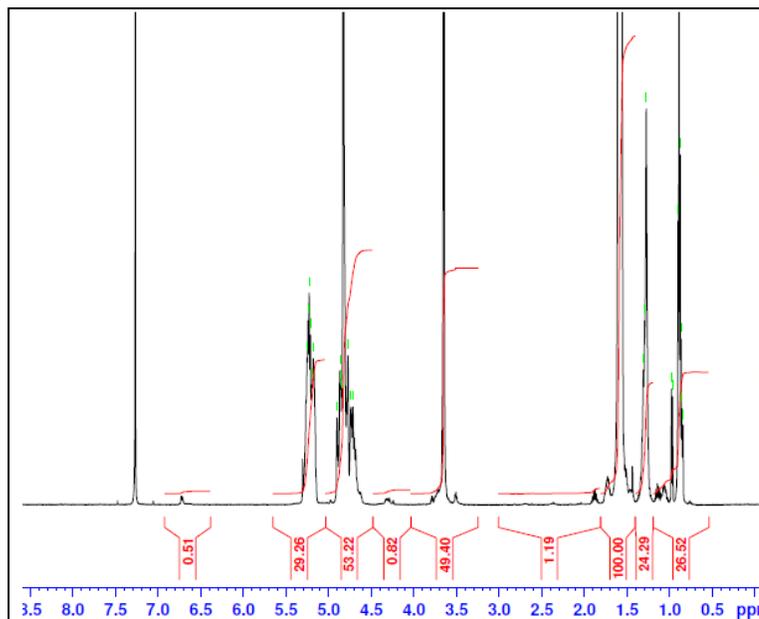


No. AI110

Certificate of Analysis

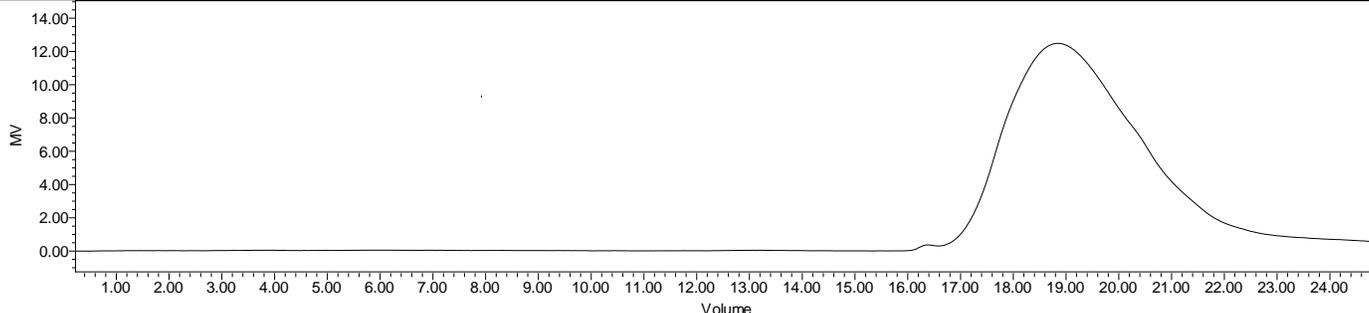


Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-Maleimide
Copolymers ($M_w \sim 30,000-5,000\text{Da}$) (Lot#: 190123RAI-B)



FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Nicolet Avatar 320 spectrometer and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl_3 (Varian Inova 500 MHz instrument) NMR of PLGA-PEG-Mal repeat units: EG-LA/GA = 111*-263/239 (M_n LA:GA 4890*-18935/13881)



GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG-Mal	30,622	52,139	1.70
PEG Precursor*	4900*		

*- from MFG data

Structure of PLGA-PEG-Mal copolymers

