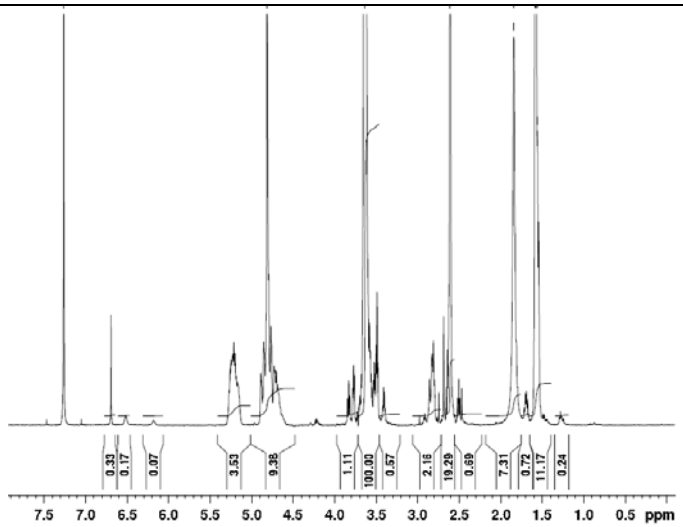
No. AI48 Certificate of Analysis

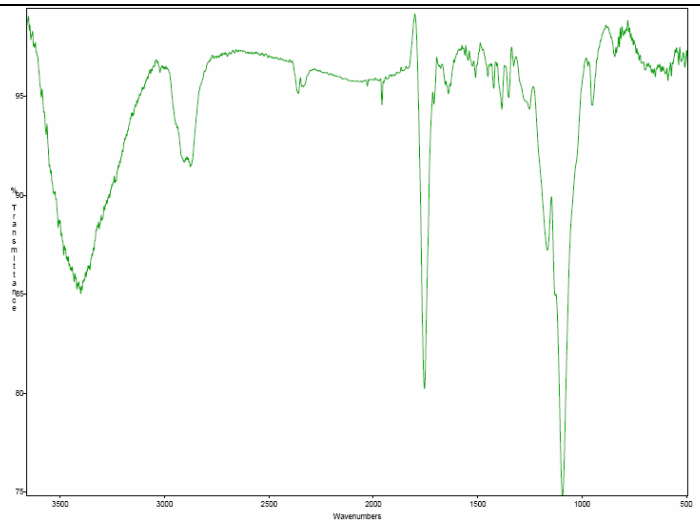
Product Name: Poly(lactic-co-glycolic)-b-Poly(ethylene glycol)-Maleimide copolymers (MW~2,500-5,000Da) (Lot#: 30702JSG)

H-NMR



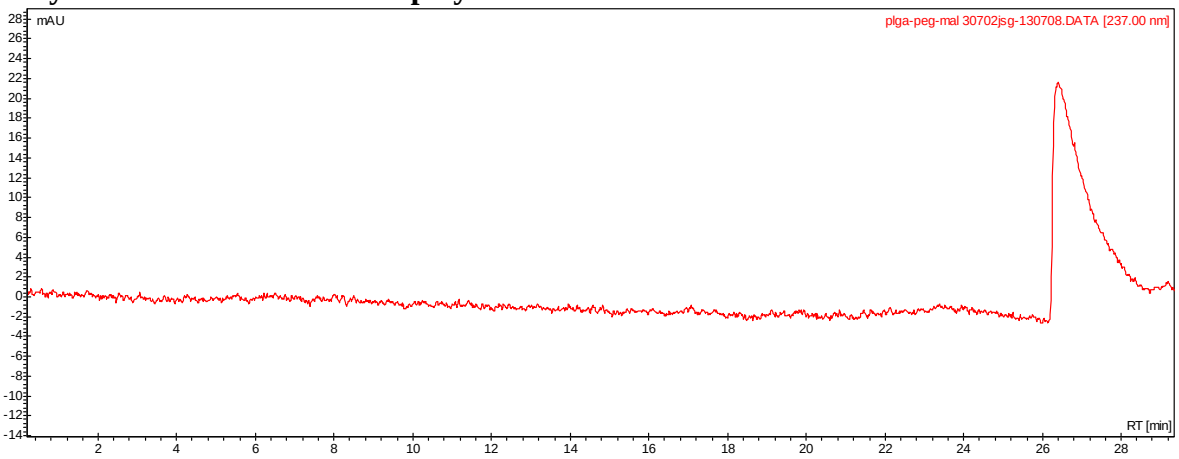
H-NMR Spectrum of PLGA-PEG-Mal copolymers in CDCl3 (Varian Inova 500 MHz instrument), NMR of PLGA-PEG-Mal repeat units: GA/LA-EG = 22/16 -115* (Mn GA/LA-EG = 1252/1169-5066*)

FTIR



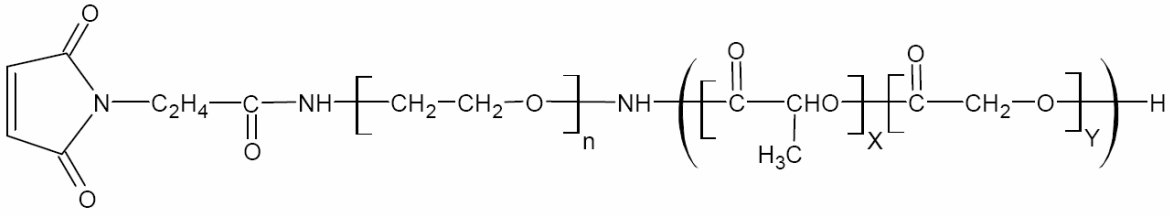
FTIR Analysis Method: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

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



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

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLGA-PEG-Mal	6506	7368	1.13
PEG precursor	Mn (GFC) 4300*		

*-data provided by manufacturer

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