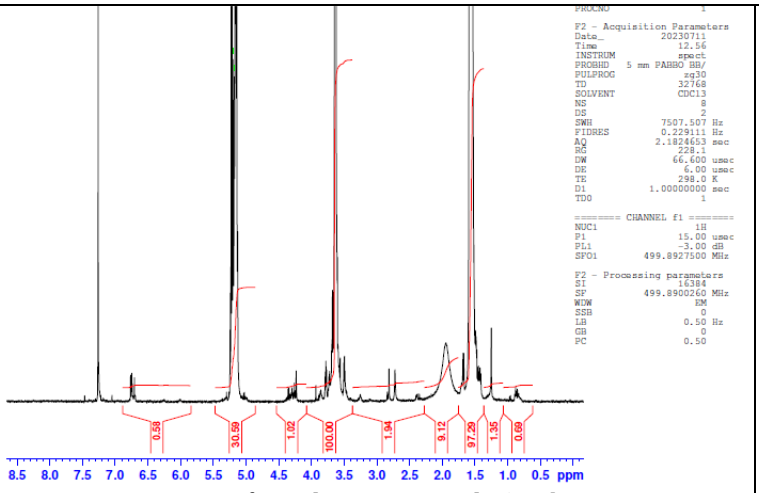
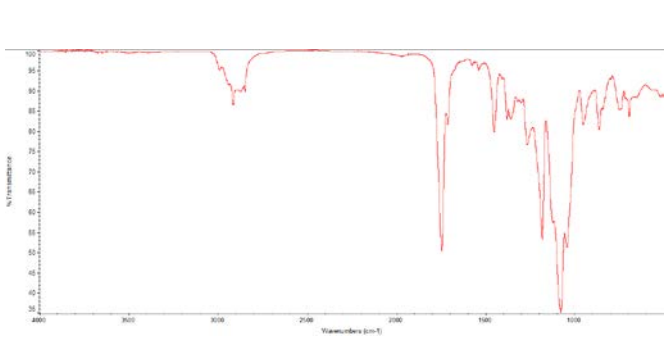
No. AI060 Certificate of Analysis

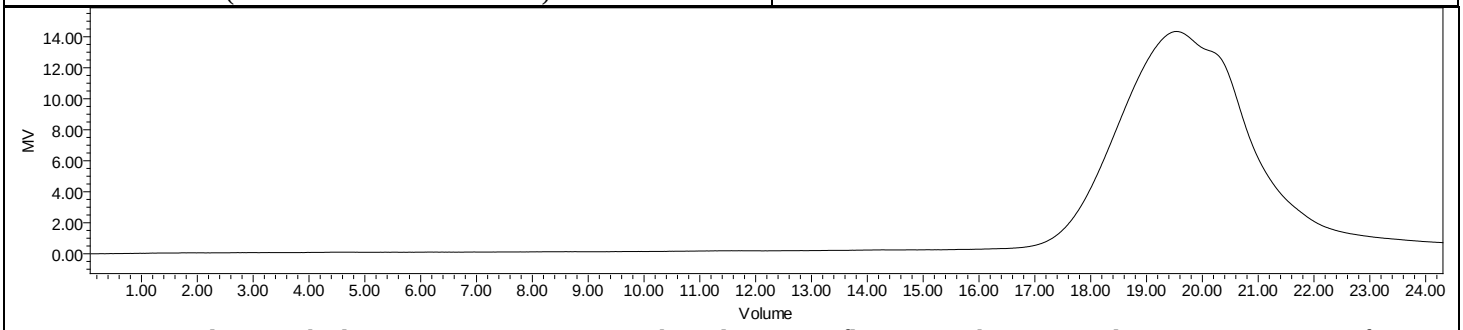
Product Name: Maleimide-Poly(ethylene glycol)-b-Poly(D,L-lactide) (Mw 5,000:10,000 Da) (Lot#: 230629RAI-B)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of Mal-PEG-PLGA copolymer:EG*/LA =113*/138 (Mn EG*/LA 4978*/9955 Da)



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.

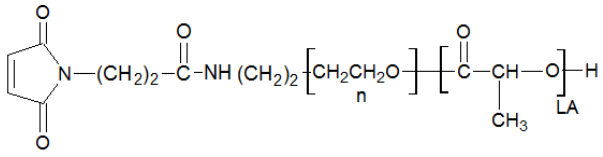


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
Mal-PEG-PLGA	26,334	38,336	1.46
PEG-Precursor*	4996*		

*- from MFG data

- **Structure of Mal-PEG-PDLLA copolymers**



Approved By:
Amie Tyler
Quality Manager