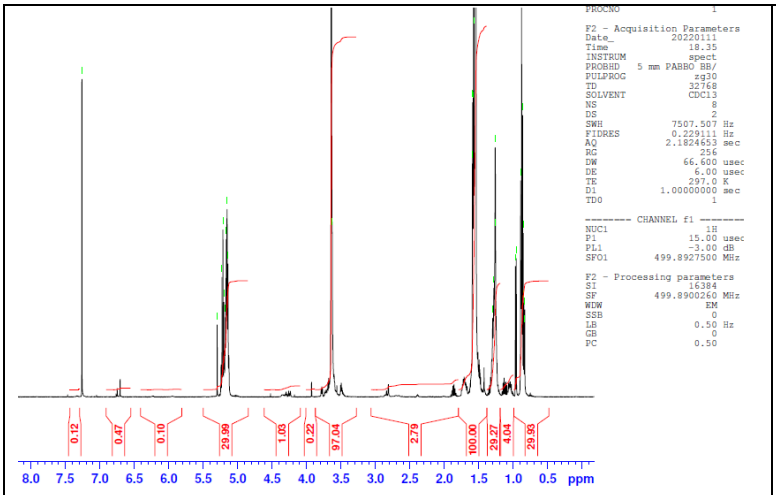
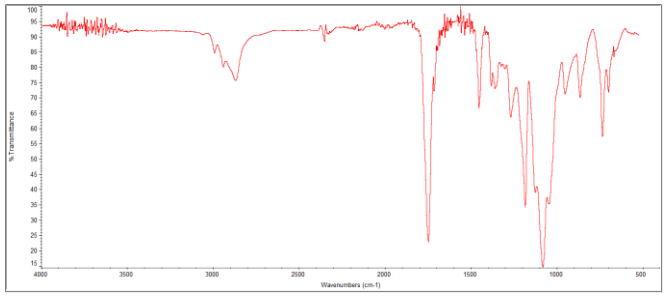
No. AI224 Certificate of Analysis

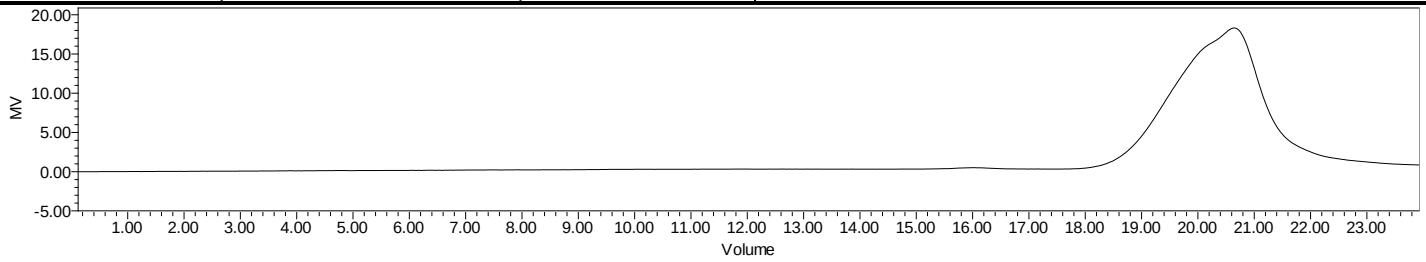
Product Name: Maleimide-Poly(ethylene glycol)-b-Poly(D,L-lactide) (Mw 5,000:10,000 Da) (Lot#: 220106RAI-A)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PDLLA-PEG-Mal copolymer: EG/LA =113/140 (Mn EG/LA 4978/10058 Da)



FTIR Analysis: Collected from Nicollet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

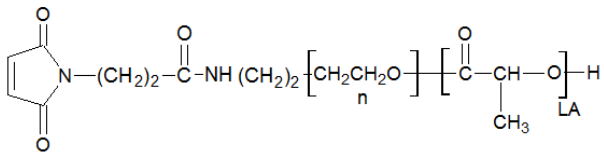


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PDLLA-PEG-Mal	19,403	24,028	1.24
PEG-precursor*	4996*		

*- from MFG data

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



PolySciTech Division of Akina, Inc. | 3495 Kent Avenue, West Lafayette, IN 47906
765-464-0390 | www.polyscitech.com
For research use only.