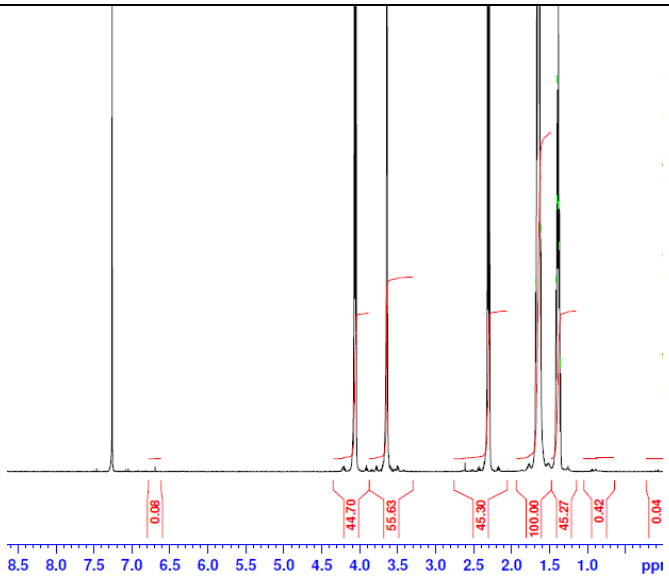
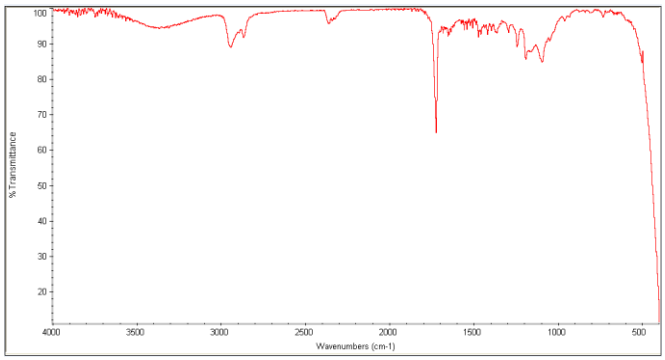
No. AI182 Certificate of Analysis

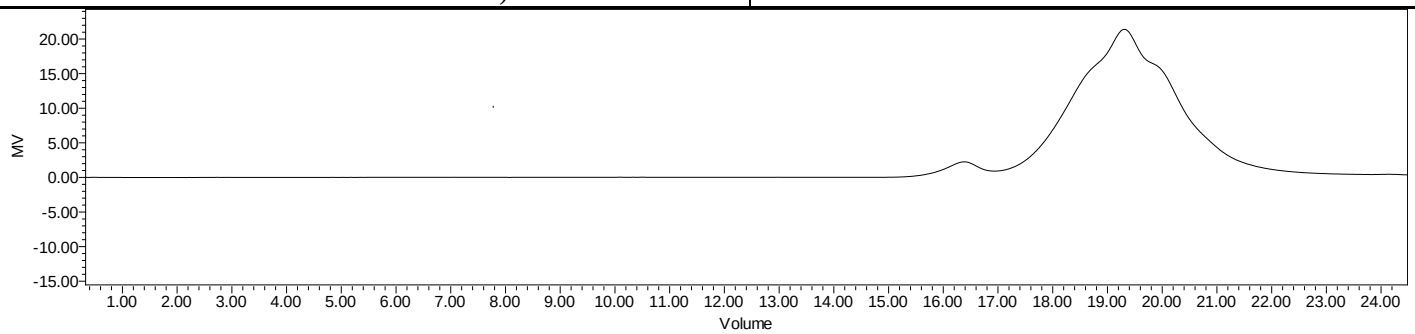
Product Name: Polycaprolactone-Poly(ethylene glycol)-b-Maleimide (40,000-10,000 Da) Lot# 190516RAI-A



H-NMR Spectrum of copolymers in CDCl3 (Bruker 500 MHz, PINMRF) NMR of PCL-PEG copolymer: EG/CL =237/381 (Mn EG/CL 10441*/43472 Da)



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

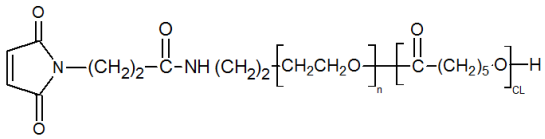


GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA-PEG	44,894	50,409	1.12
PEG precursor*	10,460*		

*- from MFG data

- **Structure of PCL-PEG-Mal**



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