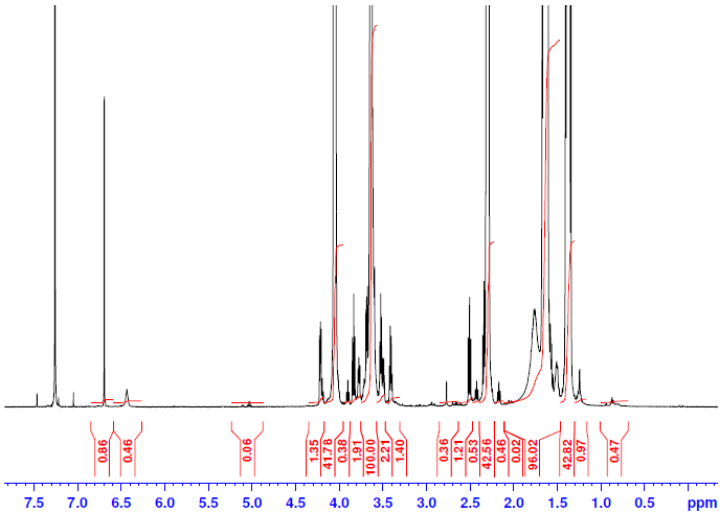
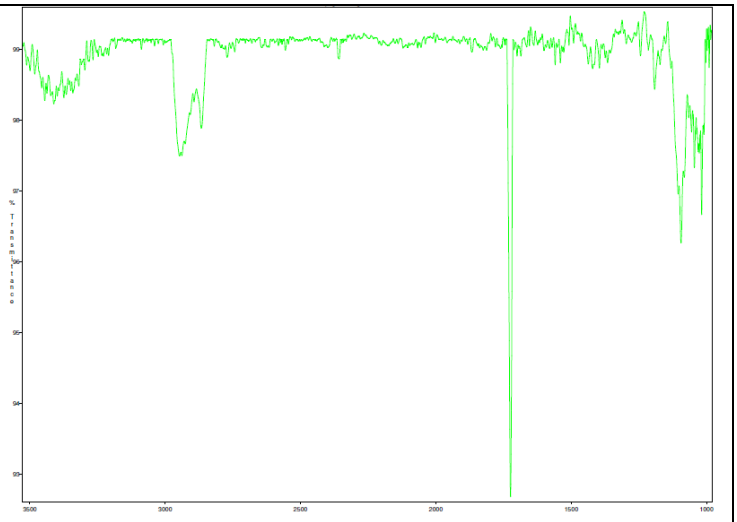
No. AI82 Certificate of Analysis

Product Name: Maleimide-*b*-Poly(ethylene glycol)-Poly(caprolactone) copolymers (M_W ~2,000-4,000Da) (Lot#: 40801JSG)

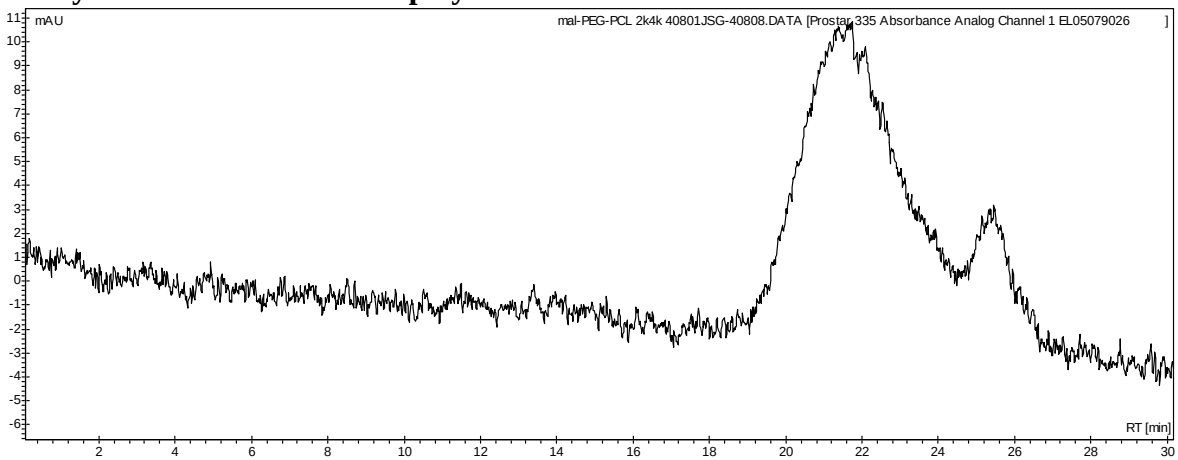


H-NMR Spectrum of Mal-PEG-PCL copolymers in $CDCl_3$ (Varian Inova 500 MHz instrument), NMR of Mal-PEG-PCL repeat units: EG-CL = 45*-38 (M_n CL = 1,982*-4,292) *Data provided by manufacturer



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 Mal-PEG-PCL copolymers**

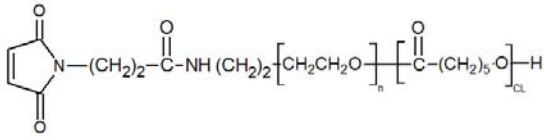


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5µm columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
Mal-PEG-PCL	3,852	10,634	2.76
PEG Precursor	M_n by GFC 2000*		

*-data provided by manufacturer

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



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