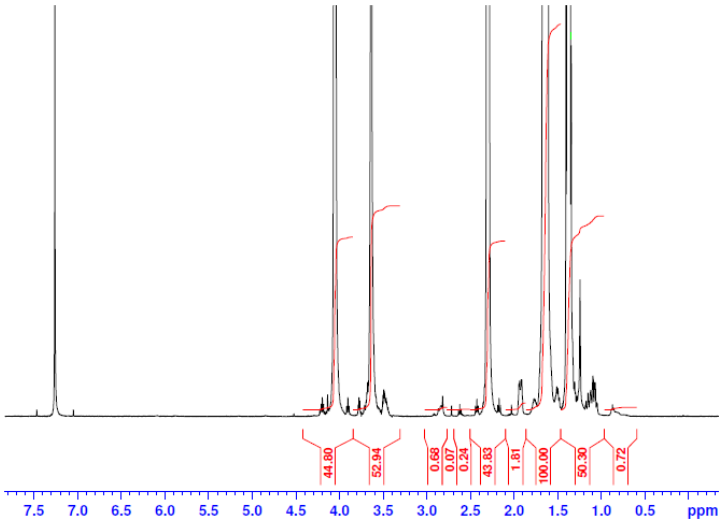
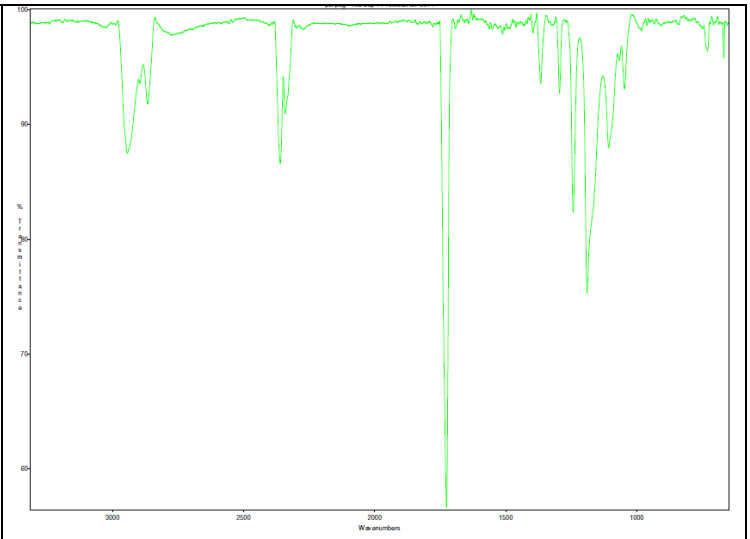
No. AI87 Certificate of Analysis

Product Name: Poly(caprolactone)-*b*-Poly(ethylene glycol)-N-hyroxysuccinimide copolymers (M_W ~45,000-10,000 Da) (Lot#: 40905JSG)

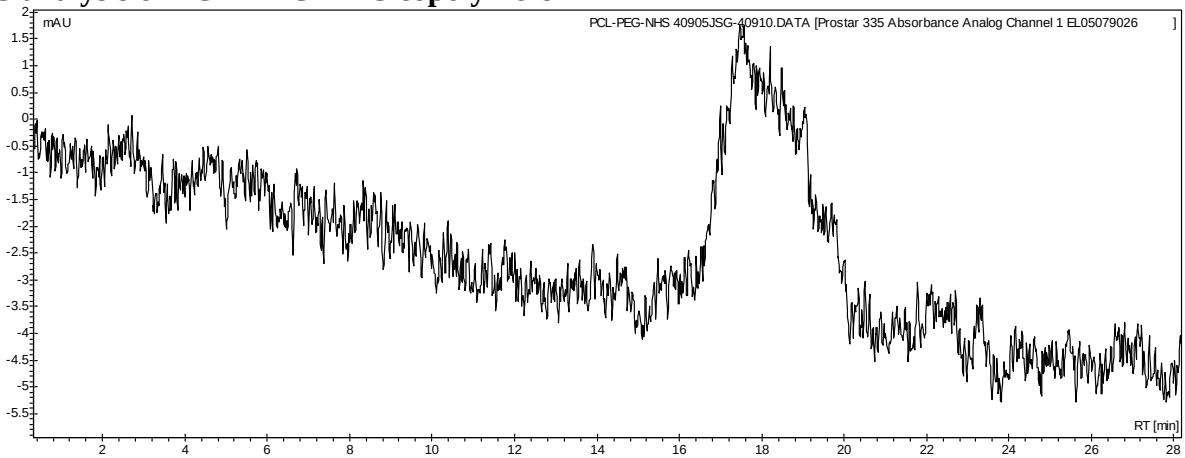


H-NMR Spectrum of PCL-PEG-NHS copolymers in $CDCl_3$ (Varian Inova 500 MHz instrument), NMR of PCL-PEG-NHS repeat units: EG-CL = 235*-398 (M_n EG-CL = 10353*-45397) *Data provided by manufacturer



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 PCL-PEG-NHS copolymers**

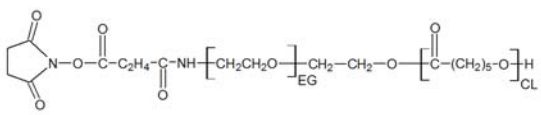


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5µm columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards.

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PCL-PEG-NHS	34,491	61,257	1.78
PEG Precursor	M_n by GFC 10,300 *		

*-data provided by manufacturer

- **Structure of PCL-PEG-NHS copolymers**



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