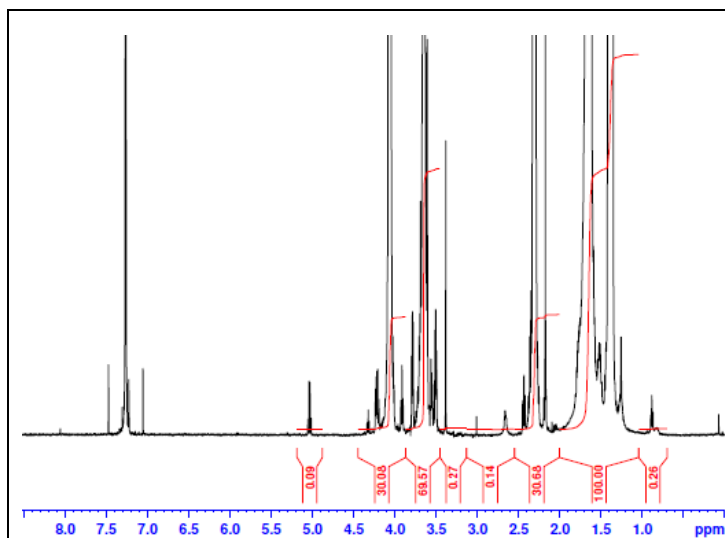


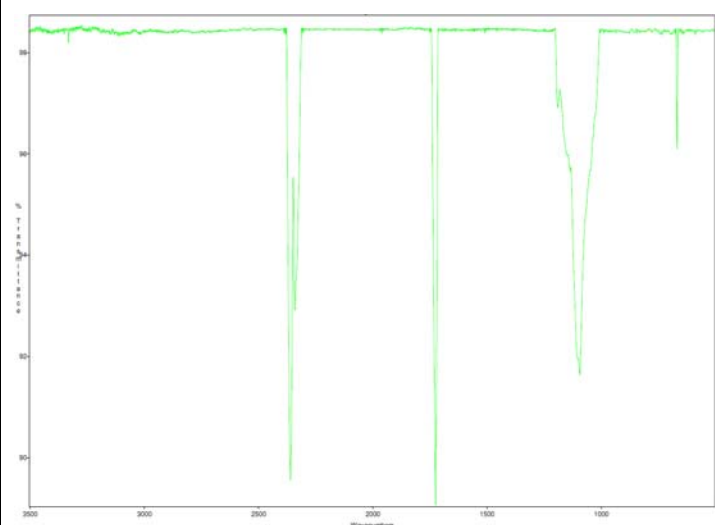
No. AI128

Certificate of Analysis

Product Name: Methoxy-Poly(ethylene glycol)-b-Poly(caprolactone)-carboxylic acid
(10,000:20,000 Da) (Lot#: 60404SMS-A)

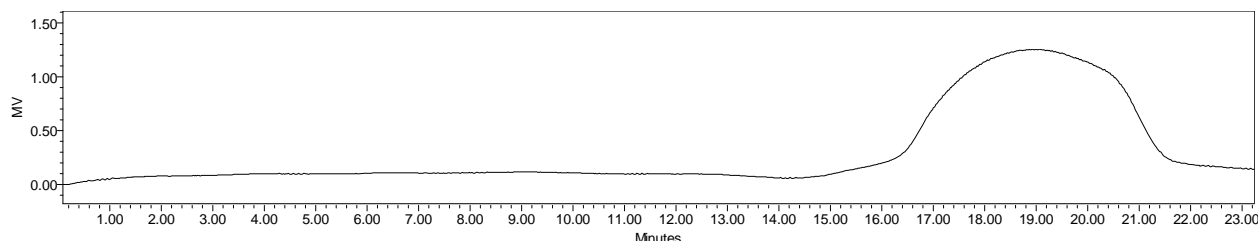


H-NMR Spectrum of mPEG-PCL-COOH copolymer in CDCl₃ (Varian Inova 500 MHz instrument), NMR of mPEG-PCL-COOH copolymer, NMR of mPEG-PCL-COOH repeat units: EG/CL = 198*/116, Mn = 8,723*/13,198 Da



FTIR Analysis: Collected from cast-film on salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

- GPC analysis of mPEG-PCL-COOH copolymer**

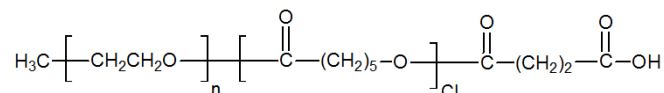


Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
mPEG-PCL-COOH	16,799	31,131	1.85
mPEG 10,000 precursor*	Mn-8,719*		1.10

*manufacturer provided data

- Structure of mPEG-PCL-COOH copolymer**



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