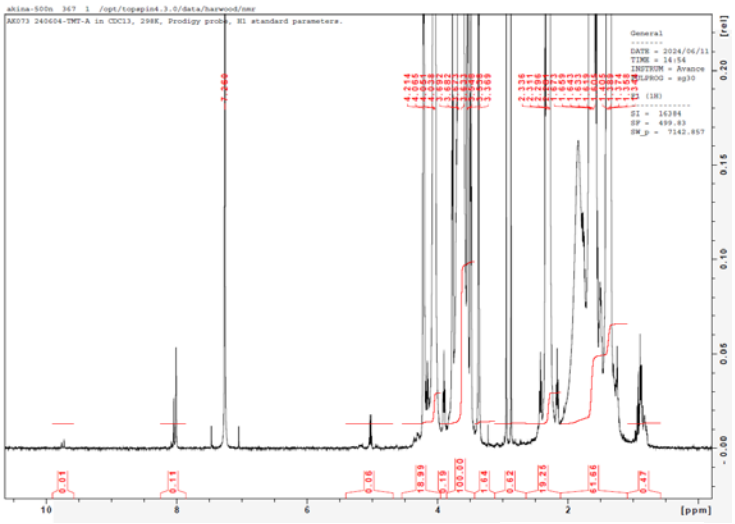
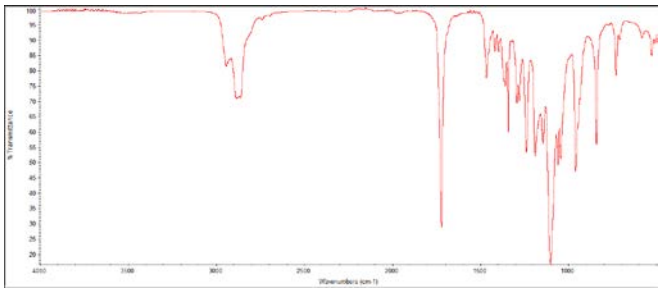
No. AK073 Certificate of Analysis

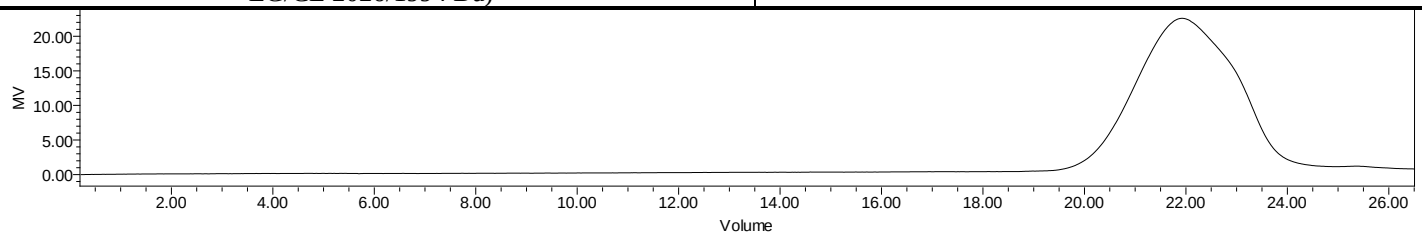
Product Name: Methoxy Poly(ethylene glycol)-*b*-Polycaprolactone copolymers (2,000:2,000 Da) (Lot#: 240604TMT-A)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of mPEG-PCL copolymer: EG/CL =46/17 (Mn EG/CL 2026/1994 Da)



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) 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
mPEG-PCL	5023	7147	1.42
PEG precursor*	Mn = 2044 Da		

*- from MFG data

- **Structure of mPEG-PCL copolymers**

Approved By:
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Quality Manager

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