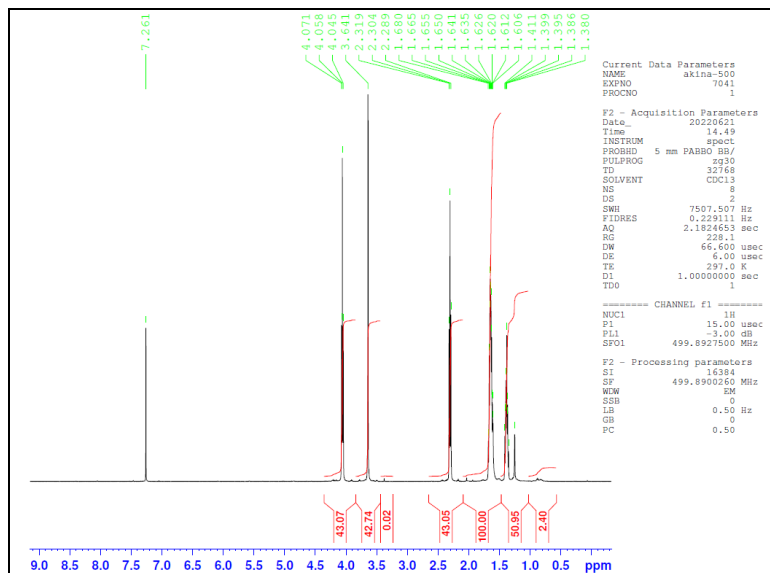


No. AK111

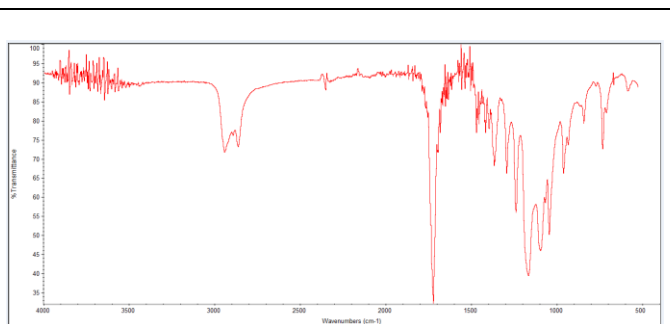
Certificate of Analysis



Product Name: Methoxy Poly(ethylene glycol)-*b*-Poly(caprolactone)
($M_w \sim 10,000:40,000$ Da) (Lot#: 220613RAI-B)

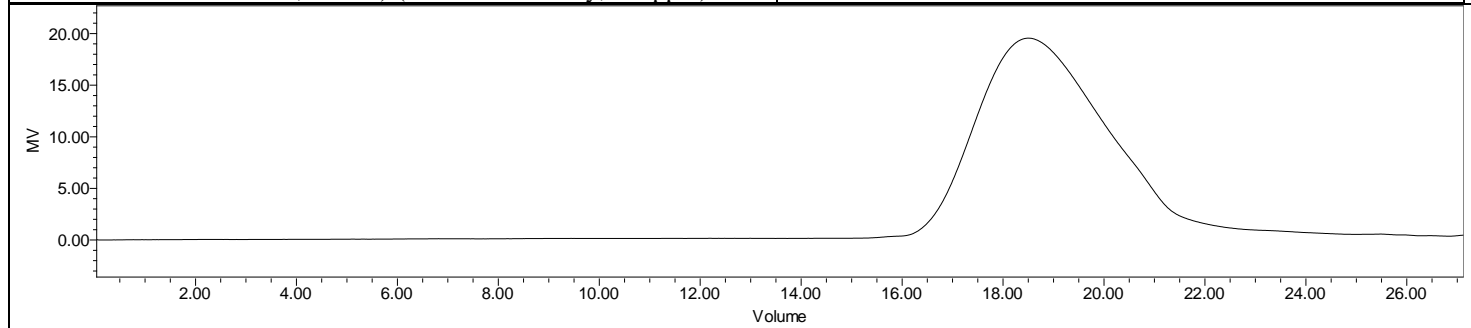


Current Data Parameters
NAME akina-500
EXPNO 7041
PROCNO 1
F2 - Acquisition Parameters
Date_ 20220621
Time 14.49
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 8
DS 2
SWH 7507.507 Hz
FIDRES 0.222813 Hz
AQ 2.1824653 sec
RG 228.1
DM 66.600 usec
DE 6.00 usec
TE 297.0 K
D1 1.0000000 sec
TDO 1
===== CHANNEL f1 =====
NUC1 1H
P1 15.00 usec
PL1 -3.00 dB
SFO1 499.8927600 MHz
F2 - Processing parameters
SI 16384
SF 499.890260 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 0.50



FTIR Analysis: Collected from Nicolet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PCL-PEG copolymer*: EG/CL = 160/323 (Mn EG/LA:GA 7061/36,870 Da) (based on methoxy, 3.4 ppm)



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	36,951	70,905	1.91
PEG precursor*		11,061*	

*- from MFG data

- Structure of mPEG-PCL copolymers

