

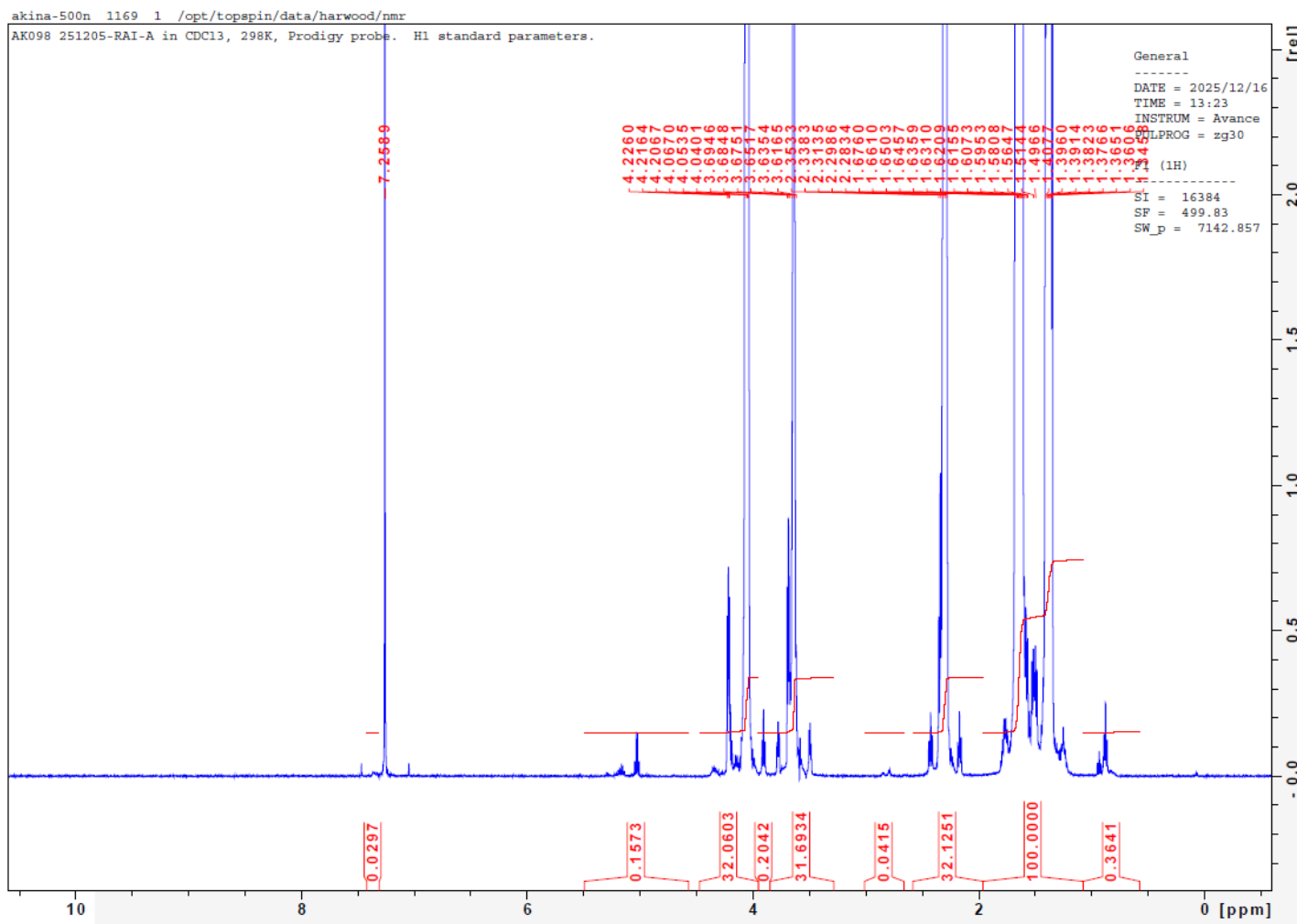
No. AK098

Certificate of Analysis



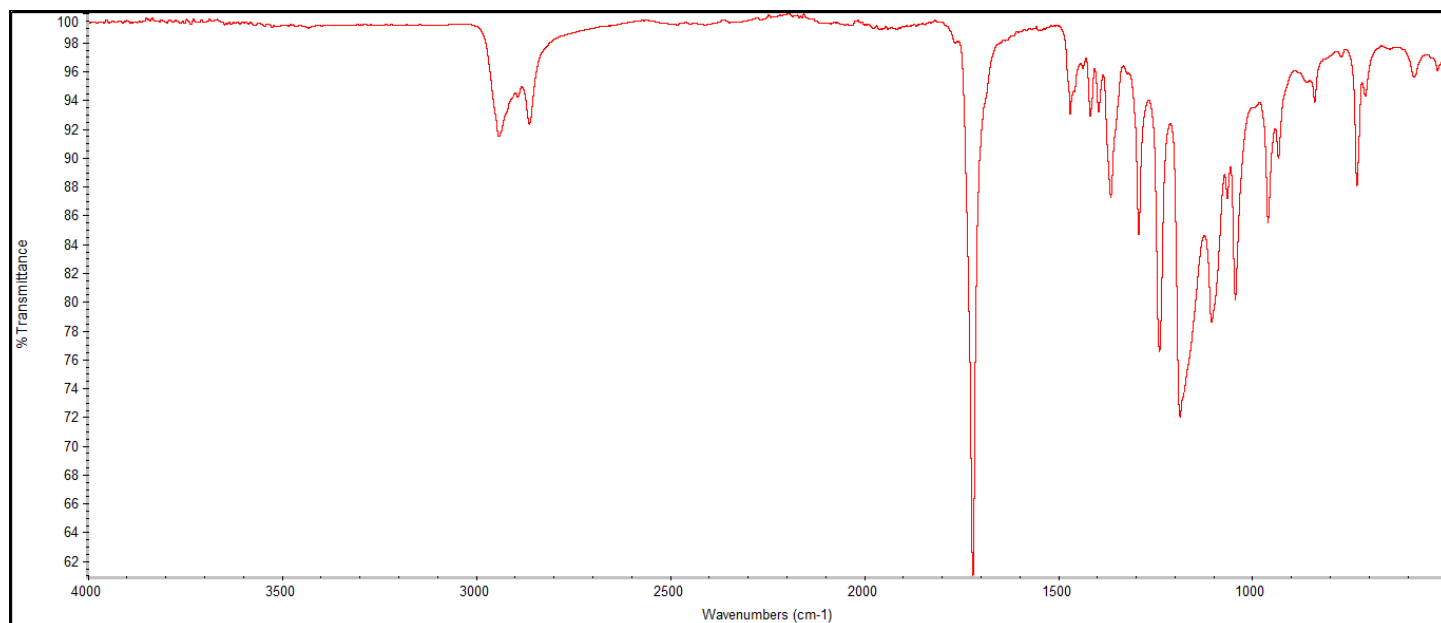
Product Name: Polycaprolactone-b-Poly(ethylene glycol)-b-Polycaprolactone (Mw ~ 5,000-2,000-5,000 Da) (Lot#: 251205RAI-A)

H-NMR



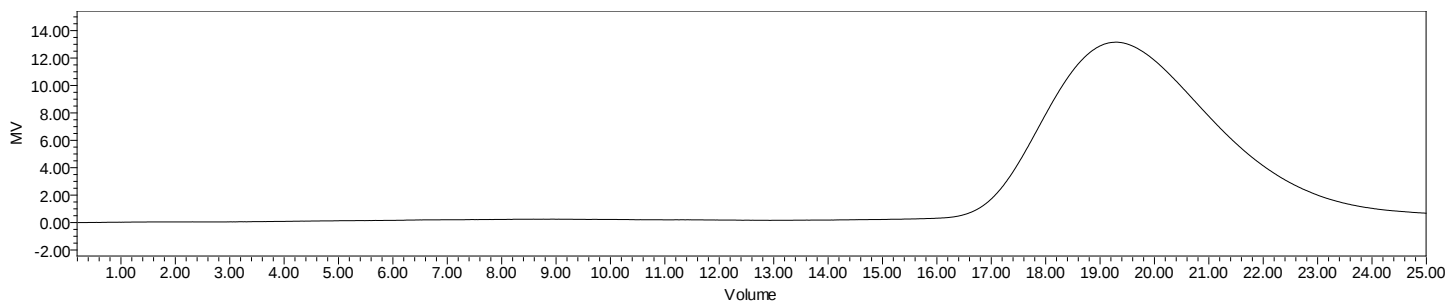
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PCL-PEG-PCL copolymer: EG/CL = 49*/99 (Mn EG/CL 2159*/11315 Da) *- from MFG data

FTIR



FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.

GPC-ES



Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PLGA-PEG-PLGA	22,112	29,971	1.36
PEG-Precursor*	M _n 2179*		

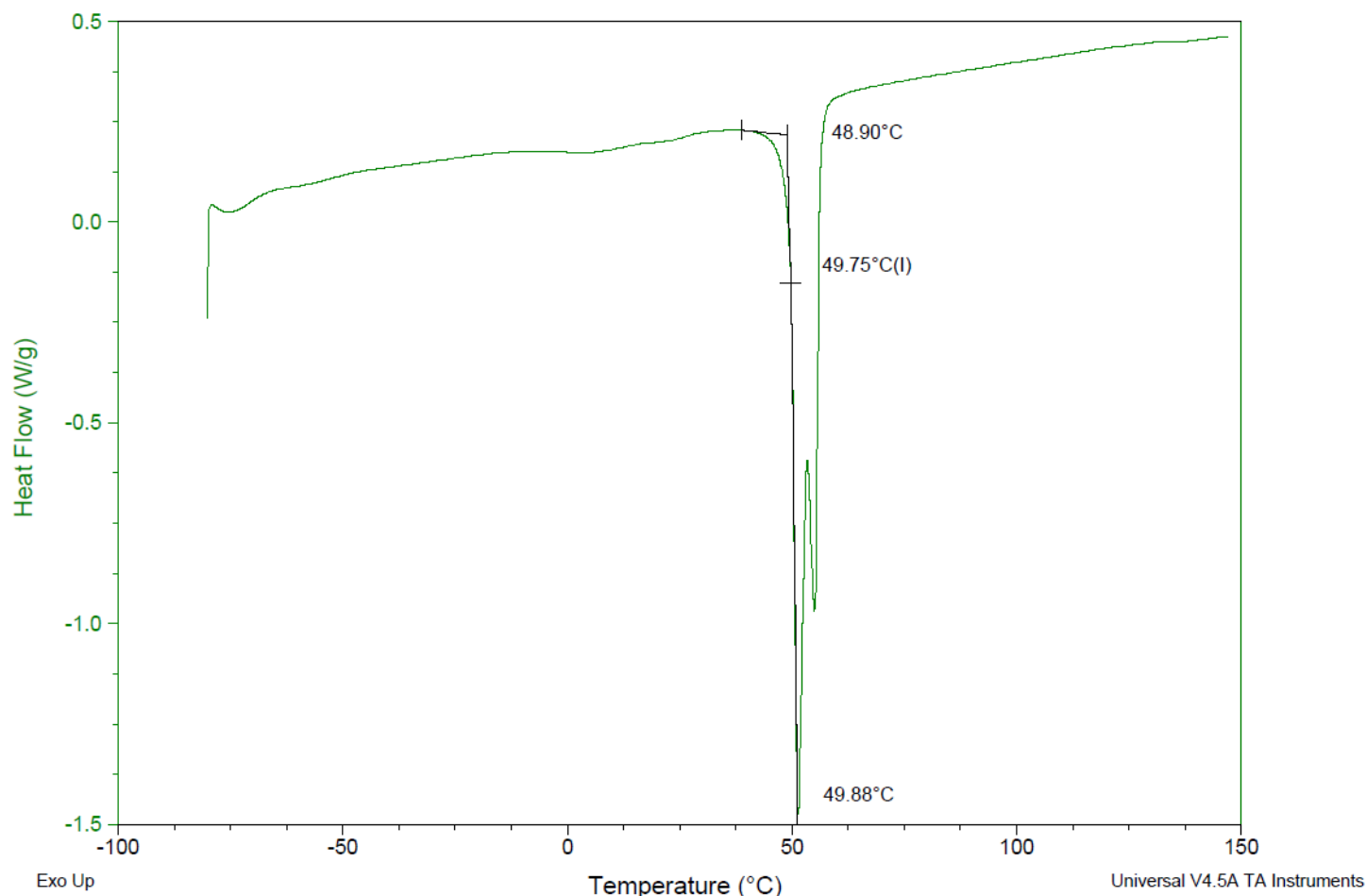
GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards. *- from MFG data

DSC

Sample: AK098 251205RAI-A
Size: 4.0000 mg
Method: Ramp

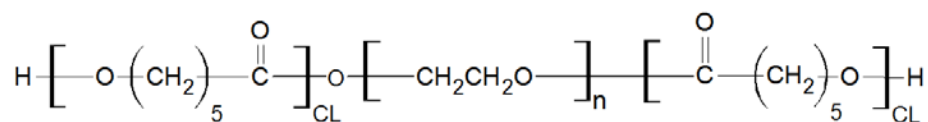
DSC

File: C:\...\COA\AK098 251205RAI-A.001
Run Date: 15-Dec-2025 14:10
Instrument: DSC Q2000 V24.11 Build 124



DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 49.75 °C

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager