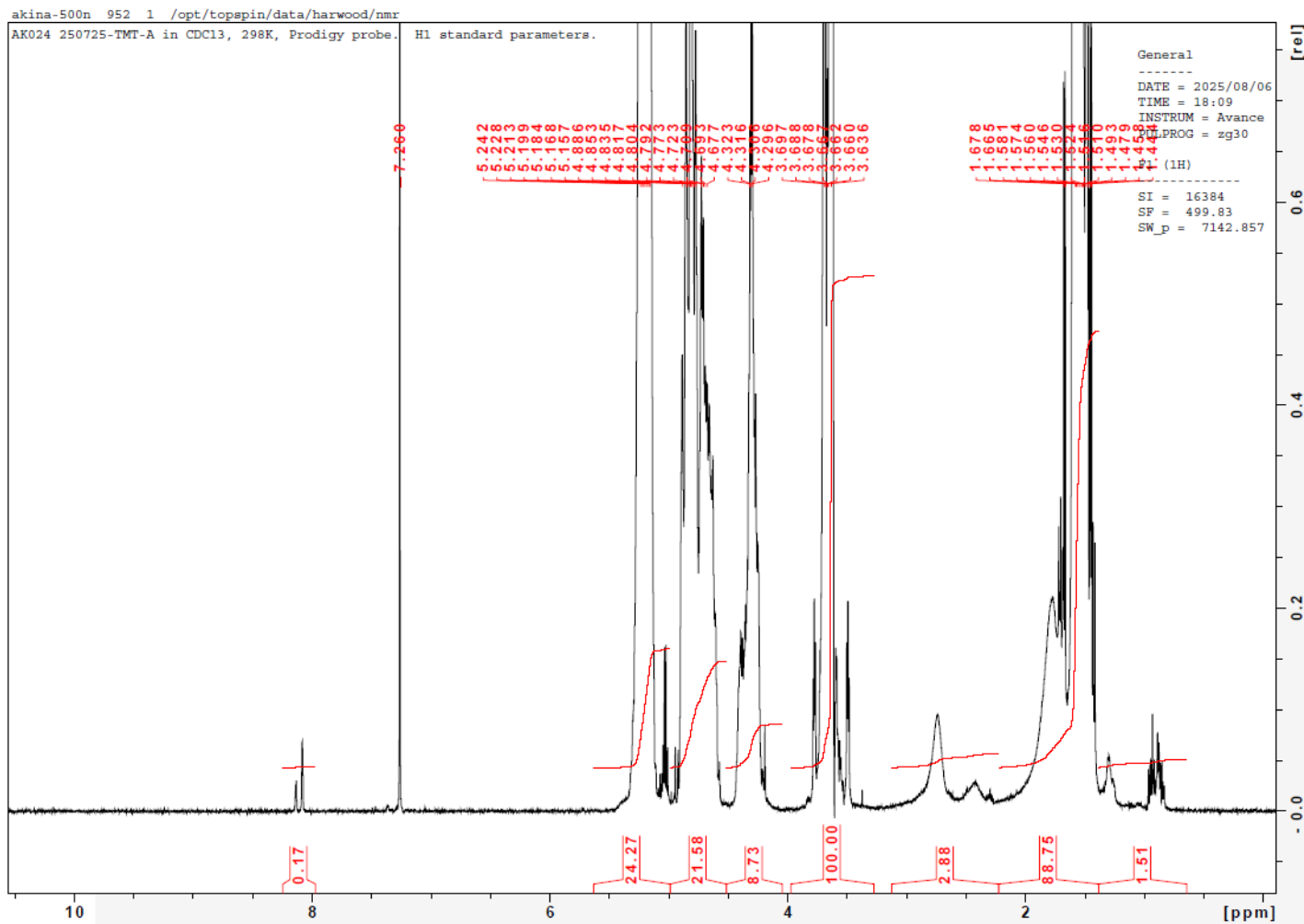


Product Name: Poly(lactide-co-glycolide)-*b*-Poly(ethylene glycol)-*b*-

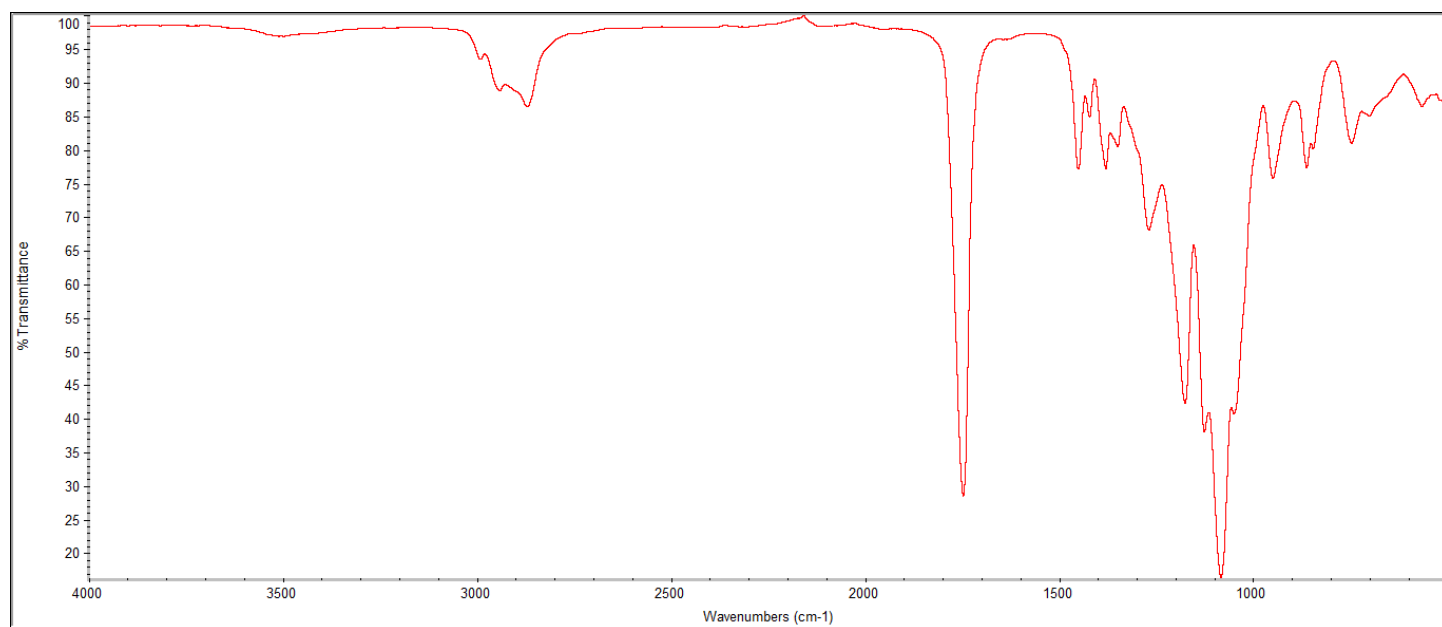
Poly(lactide-co-glycolide) (Mw ~ 1,100:1,000:1,100 Da, 75:25 LA:GA) (Lot#: 250725TMT-A)

H-NMR



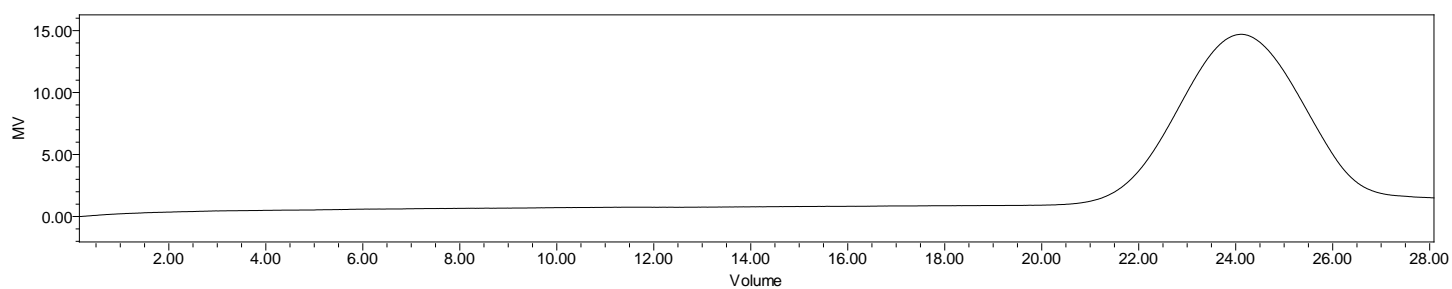
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG-PLGA copolymer: EG/LA-GA =23*/22-10 (Mn EG/LA:GA 1013*/1608-576 Da) LA:GA 74%:26% *- from MFG data

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	3783	4656	123
PEG-Precursor*	1013*		

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

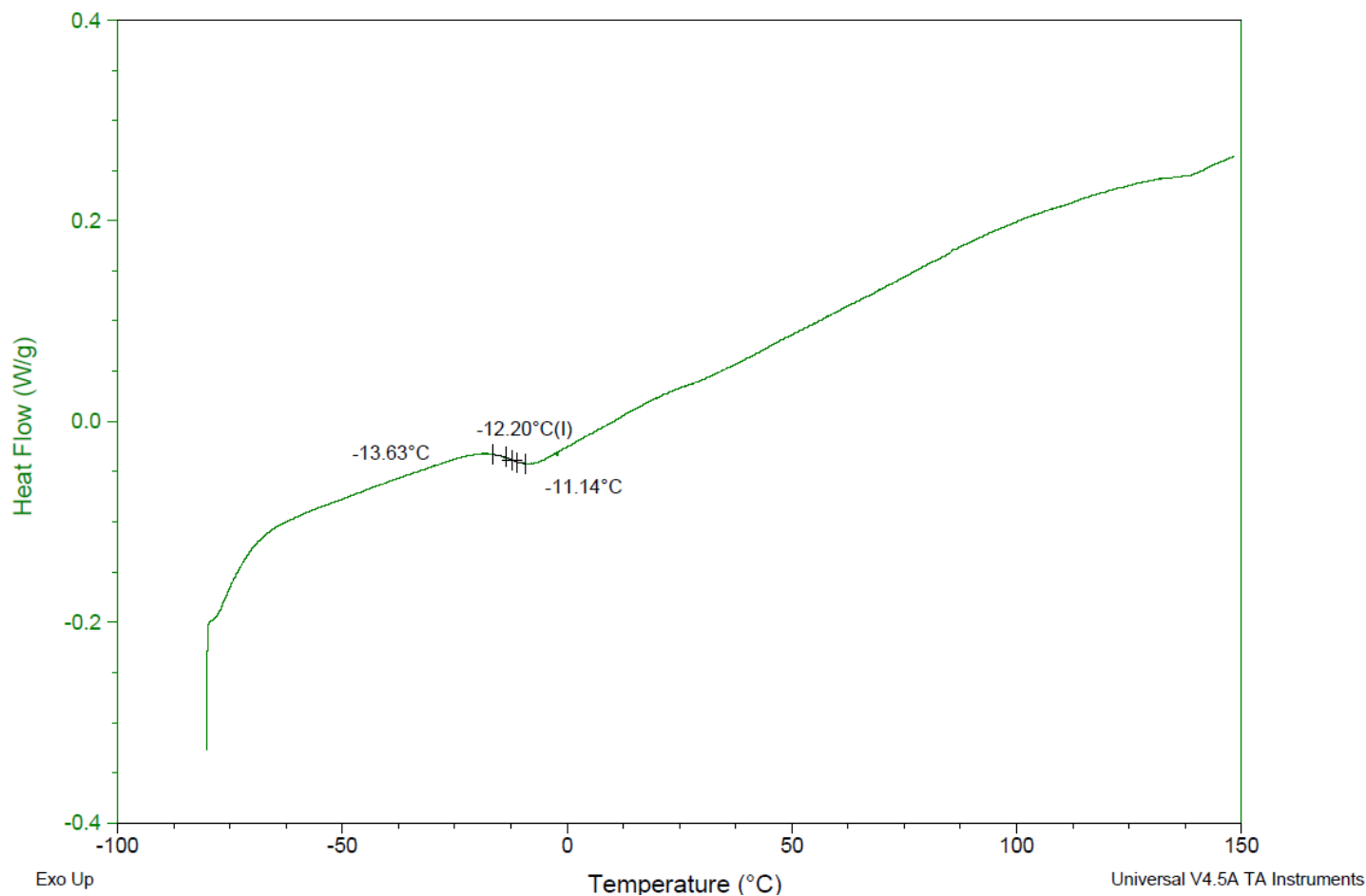
Sample: AK024 250725TMT-A
Size: 4.2000 mg
Method: Modulate-no-eqb

DSC

File: C:\...\COA\AK024 250725TMT-A DSC.001

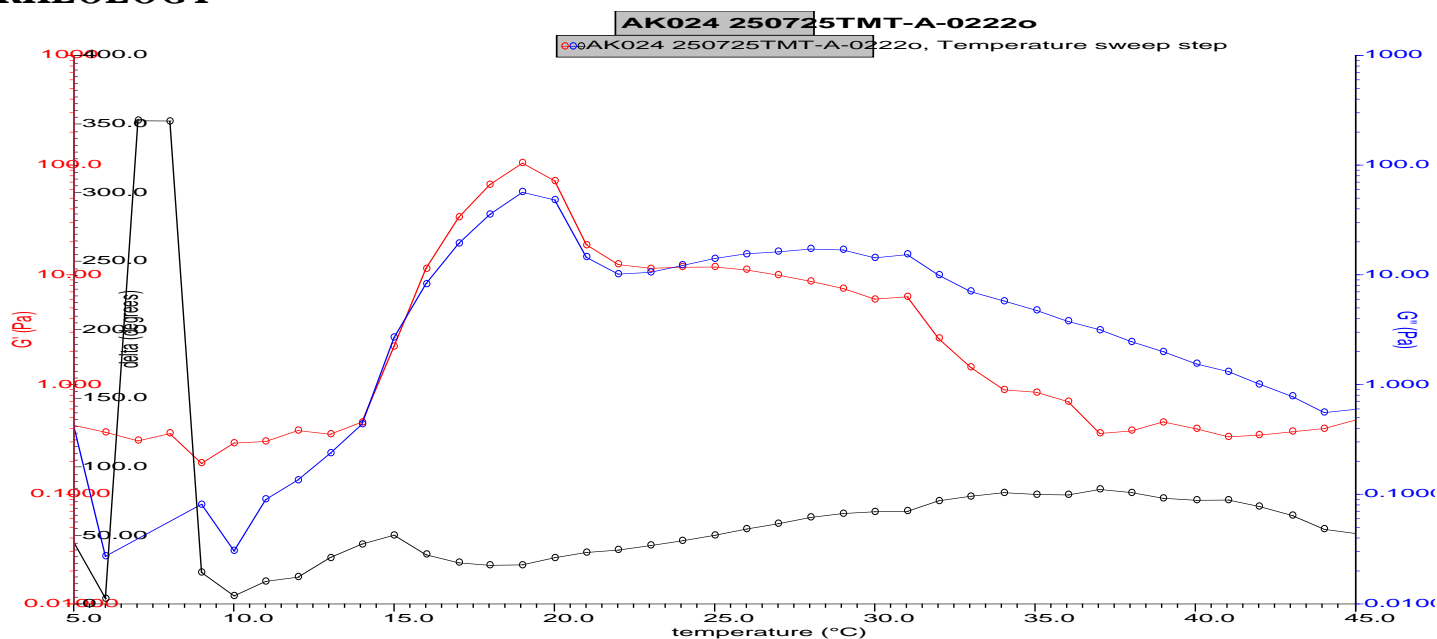
Run Date: 13-Aug-2025 09:36

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 = -12.2 °C

RHEOLOGY



Rheology performed on AR2000 (TA instruments) with 60mm 2degree cone on 20% w/v polymer in water dissolved over 3 days with stirring at 4°C. Viscosity of solution at 0.1 (sec⁻¹) and 5°C was measured (1 minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 1°C ranging from 5-45°C with 1 minutes of temperature equilibration at each point.

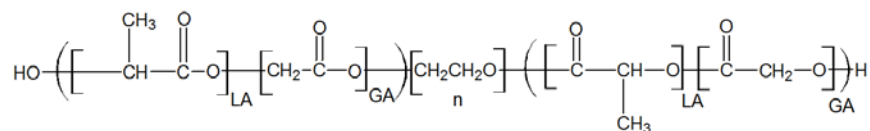
Viscosity 20% w/v solution at 5°C

0.02617
Pa/s

IV

Inherent Viscosity: 0.078 ± 0.007 dL/g (calculated from kinematic viscosity at 2% w/v Acetone on Rheosense microVISC, n=3) at 25°C.

Structure of copolymers



Approved By:
Amie Tyler
Quality Manager