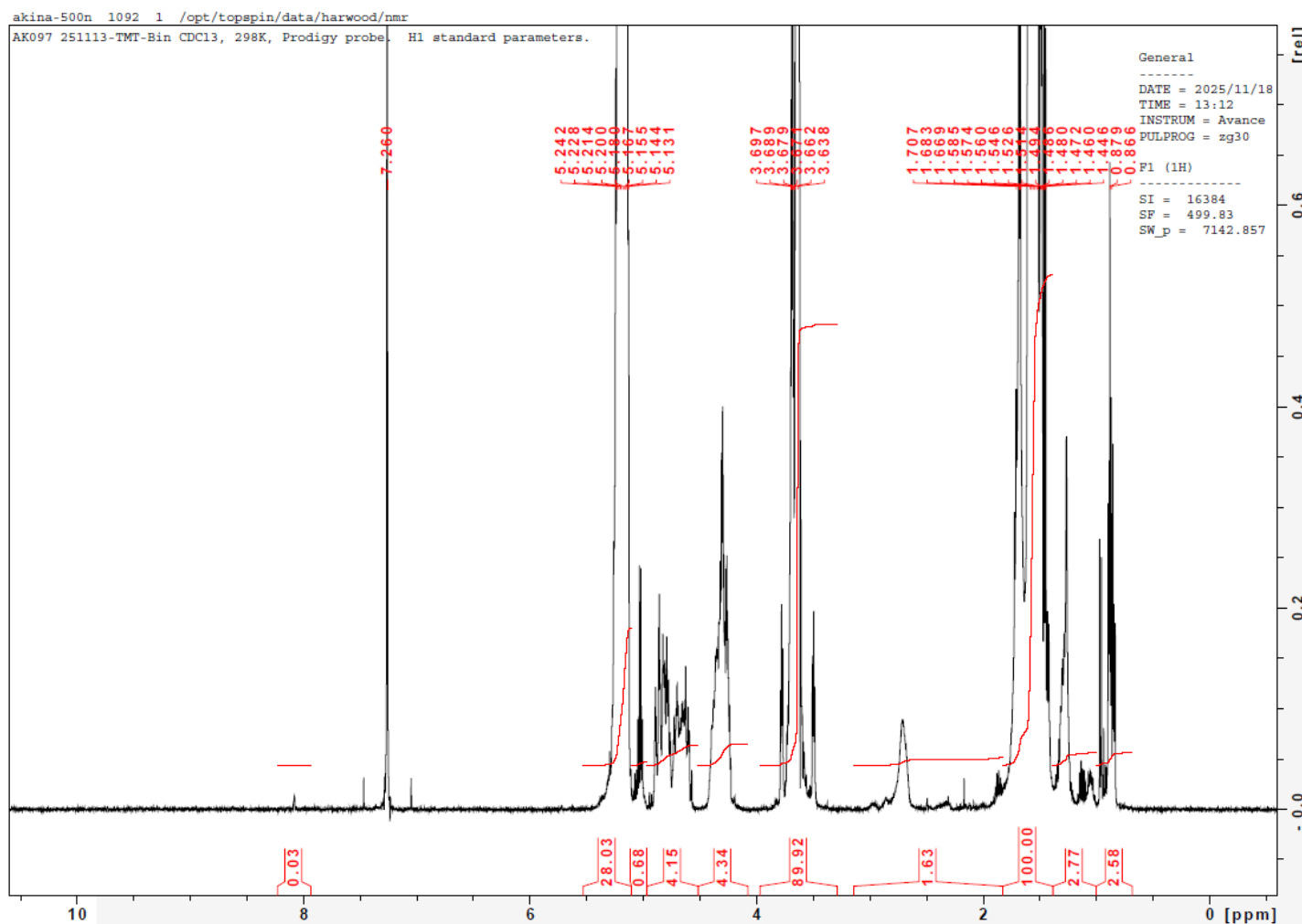


No. AK097

Certificate of Analysis

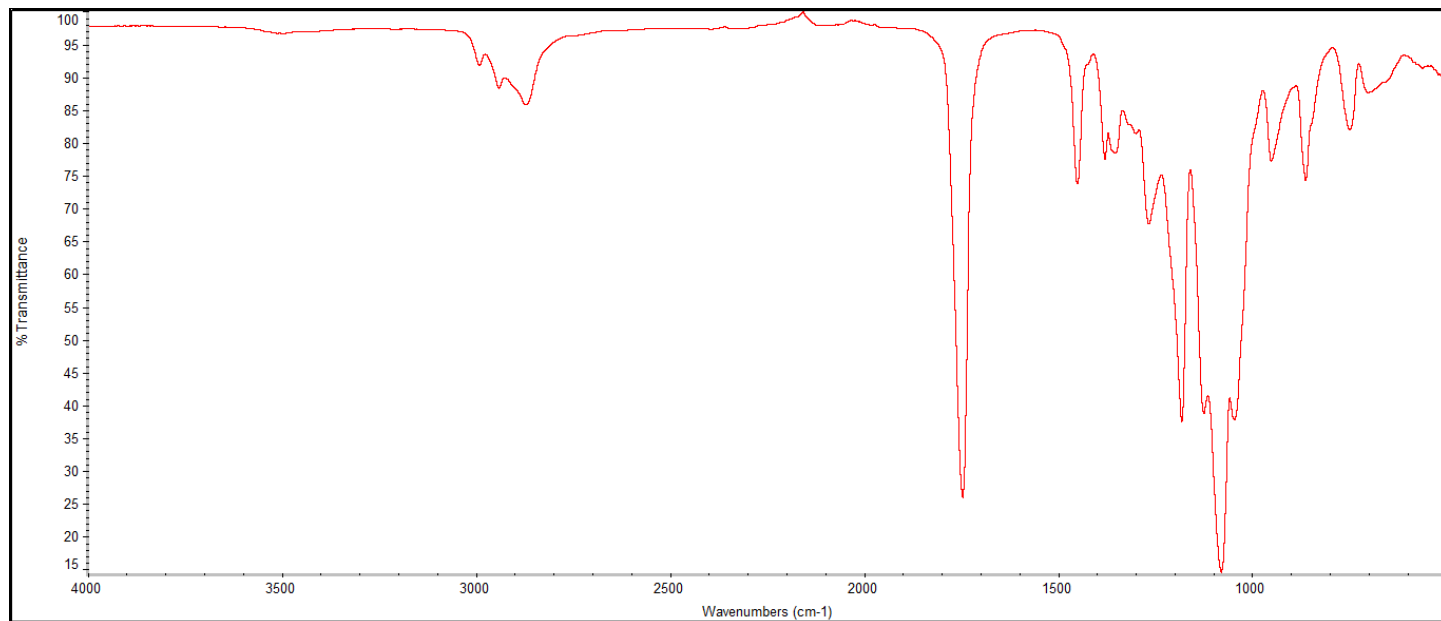
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-b-Poly(lactide-co-glycolide) 1700-1500-1700Da (LA:GA 15:1 (94%/6% LA/GA) (w:w))
(Lot#: 251113TMT-B)

H-NMR



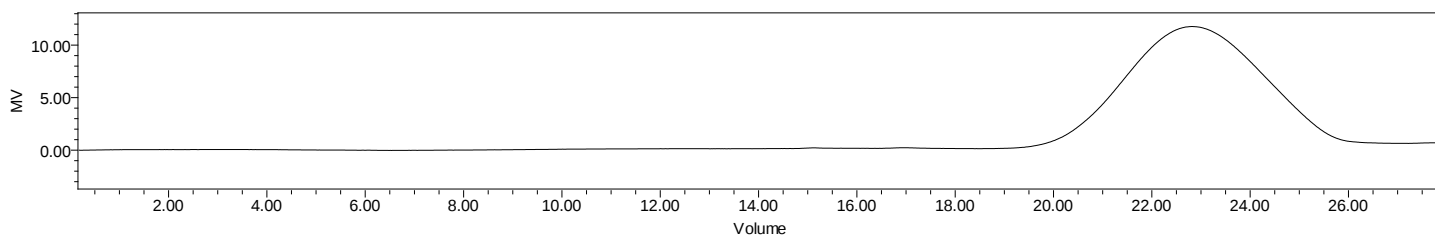
H-NMR Spectrum of copolymers in CDCl₃ (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG*/LA-GA =33*/41-3 (Mn EG*/EG*/LA:GA 1454*/2963-177 Da) LA:GA 94%:6% *- from MFG data

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	6154	7987	1.30
PEG-Precursor*	1472*		

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

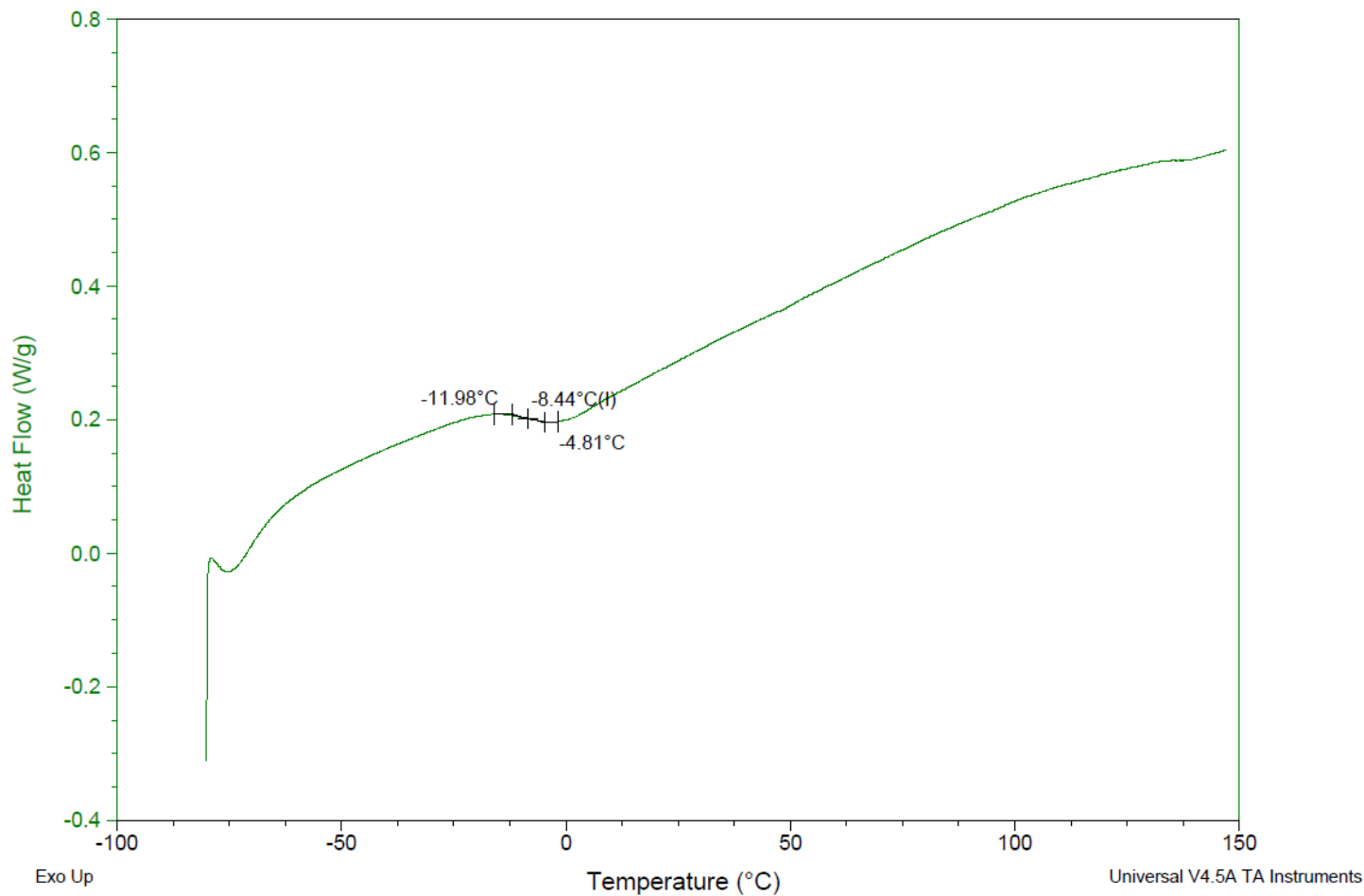
Sample: AK097 251113TMT-B
Size: 2.9000 mg
Method: Ramp

DSC

File: C:\...\COA\AK097 251113TMT-B.001

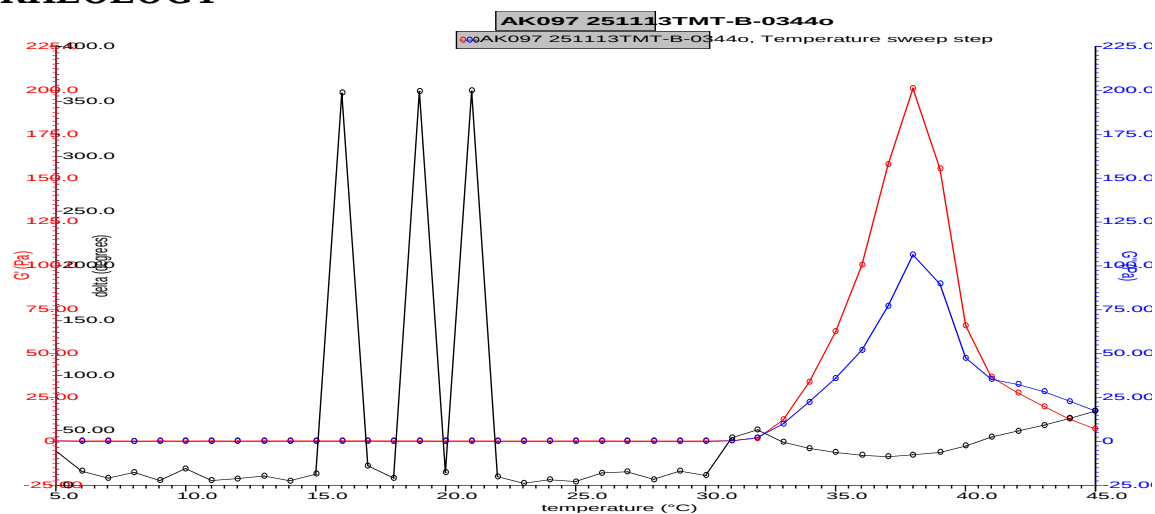
Run Date: 18-Nov-2025 14:08

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. T_g = -8.44 °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 room temperature. 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.

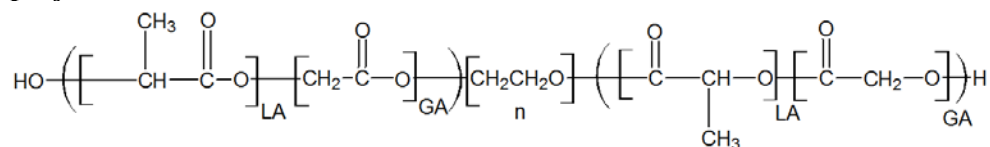
Viscosity 20% w/v solution at 5°C

0.07357
Pa/s

IV

Inherent Viscosity: 0.096 ± 0.009 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