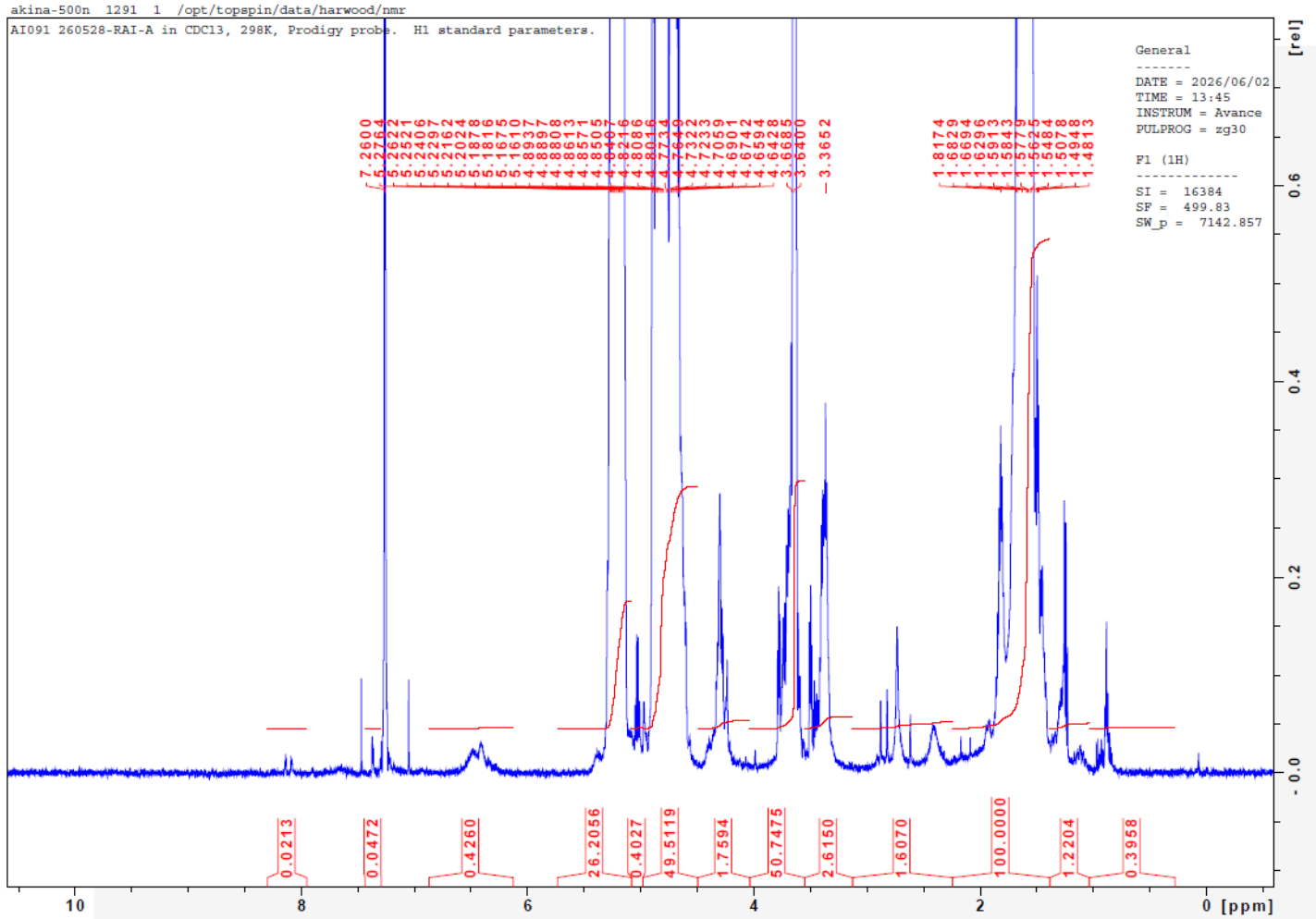


# No. AI091 Certificate of Analysis

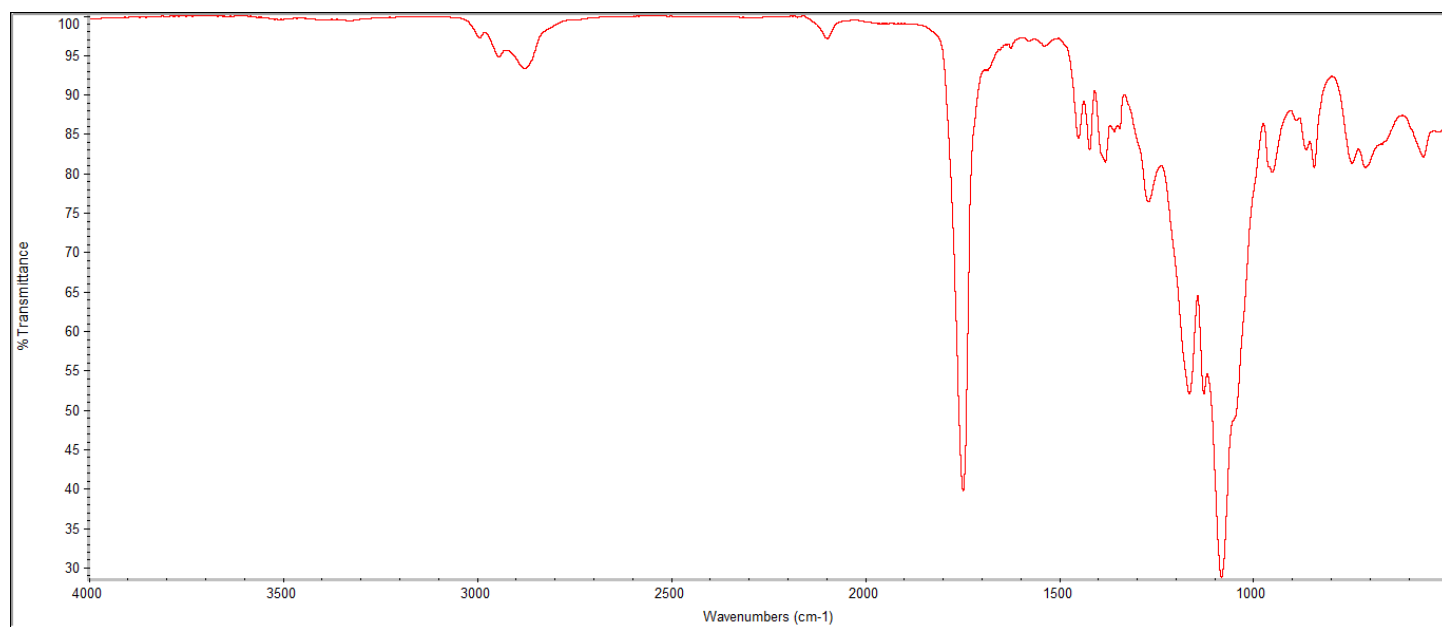
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-Azide copolymer ( $M_w \sim 30,000-5,000$  Da) (Lot#: 260528RAI-A)

## H-NMR



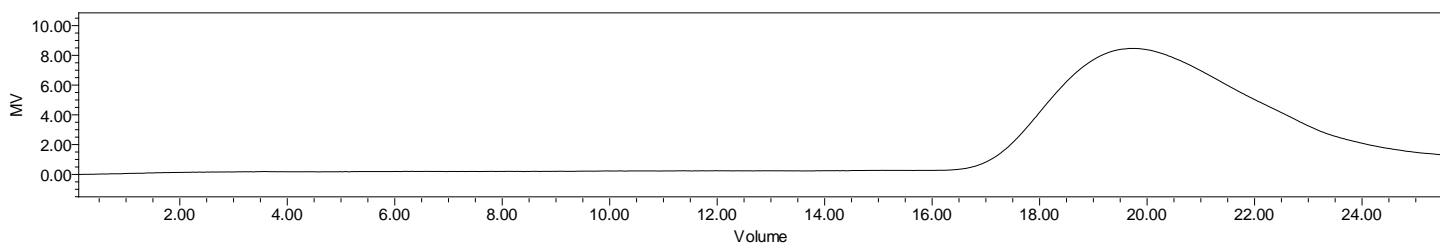
**H-NMR** Spectrum of copolymers in CDCl<sub>3</sub> (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: EG\*/LA-GA =102\*/211-199 (Mn EG\*/LA:GA 4494\*/15170-11552 Da) LA:GA 57%:43% \*from MFG data

## 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-Azide	21,350	27,797	1.30
PEG-precursor*	4500*		

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

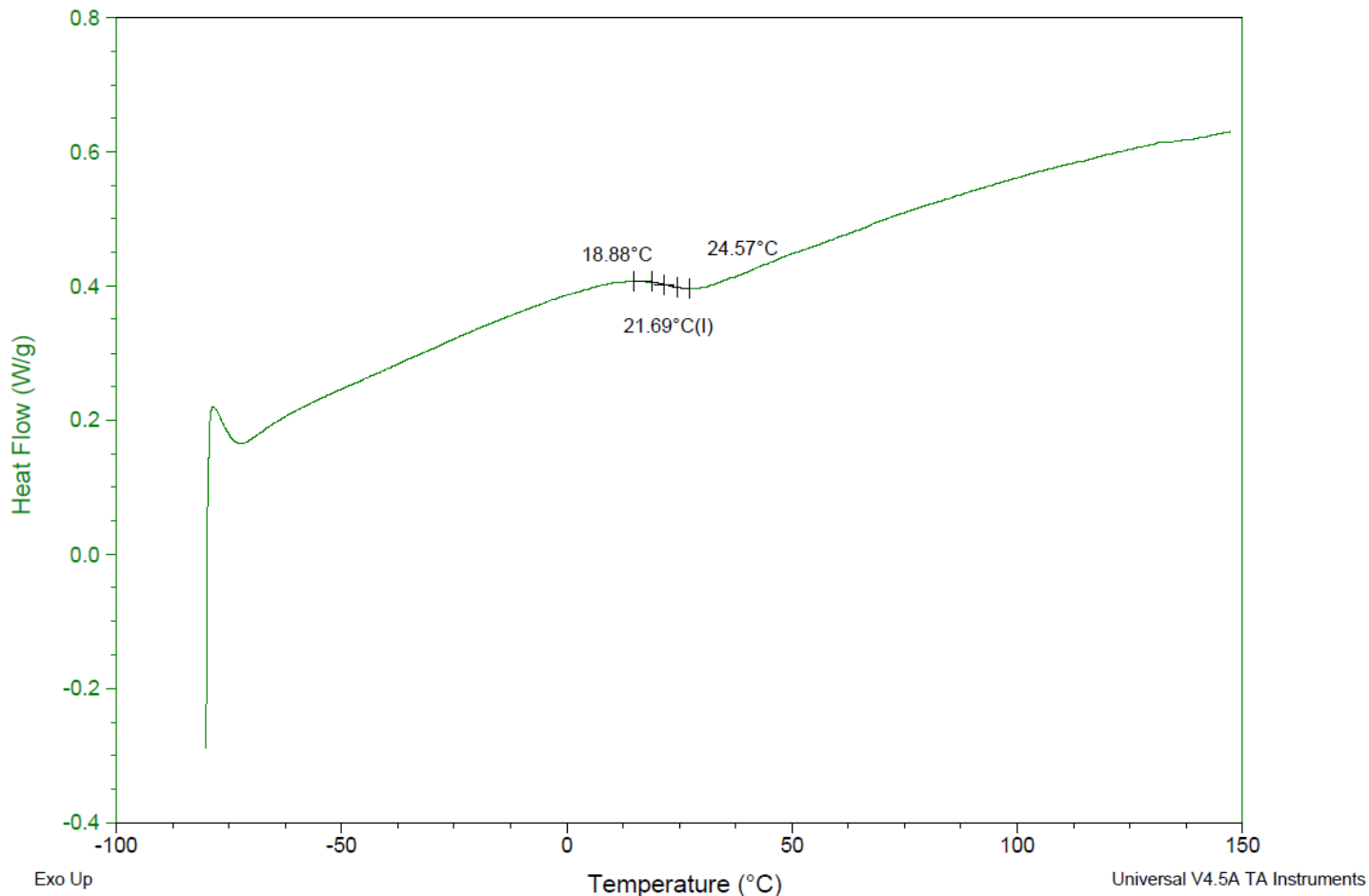
Sample: AI091 260528RAI-A  
Size: 2.9000 mg  
Method: Ramp

DSC

File: C:\...\COA\AI091 260528RAI-A.001

Run Date: 04-Jun-2026 12:56

Instrument: DSC Q2000 V24.11 Build 124

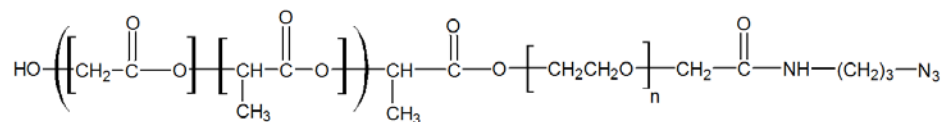


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. Tg = 21.69 °C

## IV

**Inherent Viscosity:** 0.268 ± 0.008 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