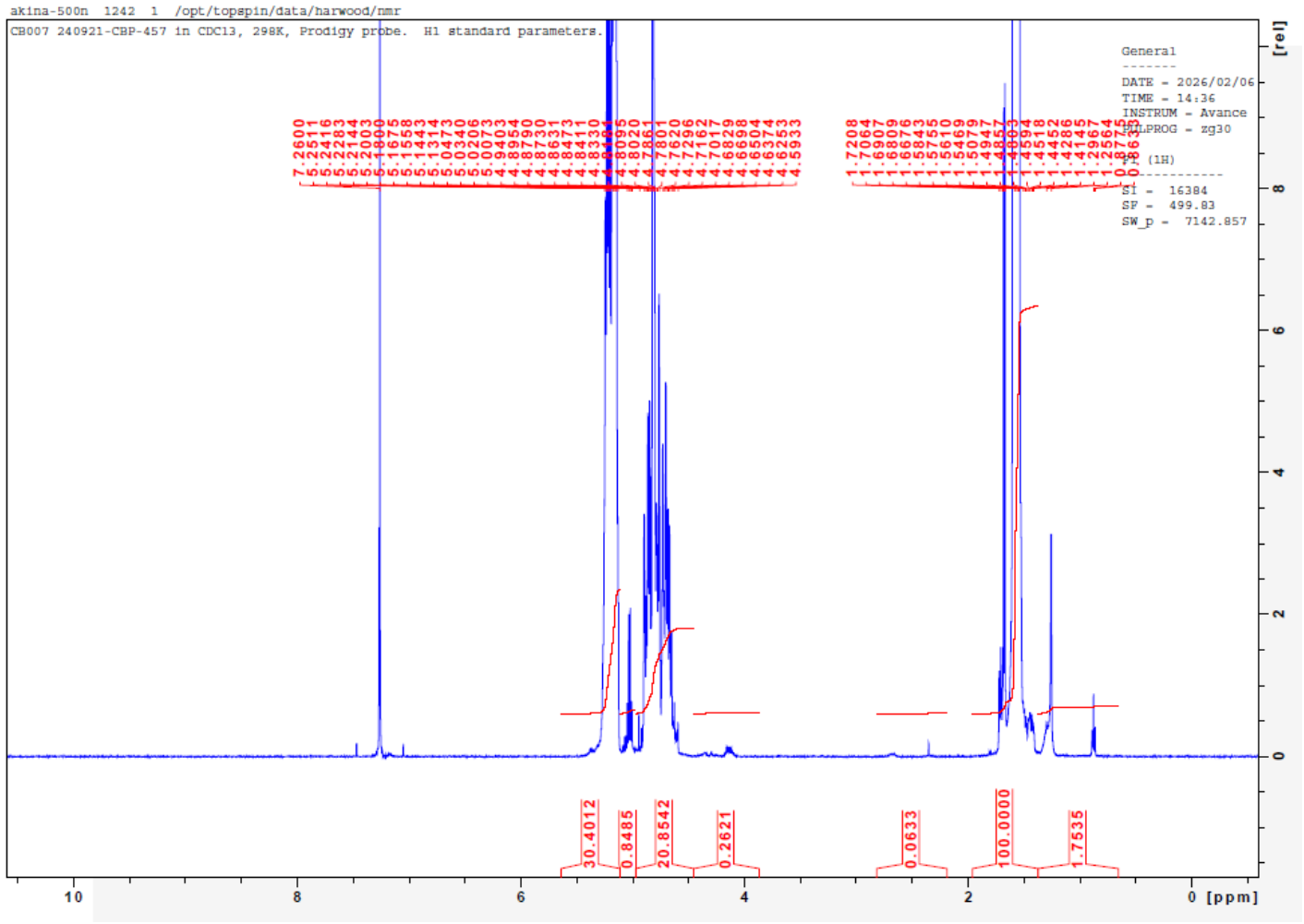
No. CB007 Certificate of Analysis

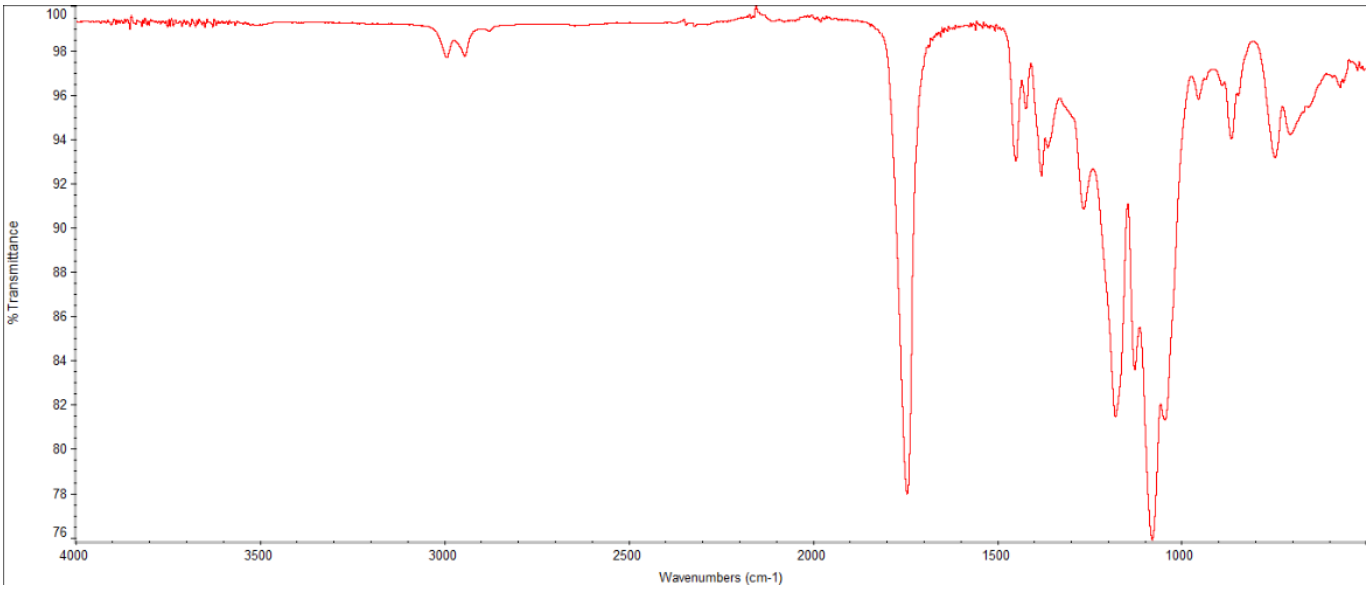
Product Name: Poly(Lactide-co-glycolide) I.V. 0.56 - 0.84 dL/g, LG 75:25, ester endcap (PDLG 7507) (Lot # 240921CPB-457)

H-NMR



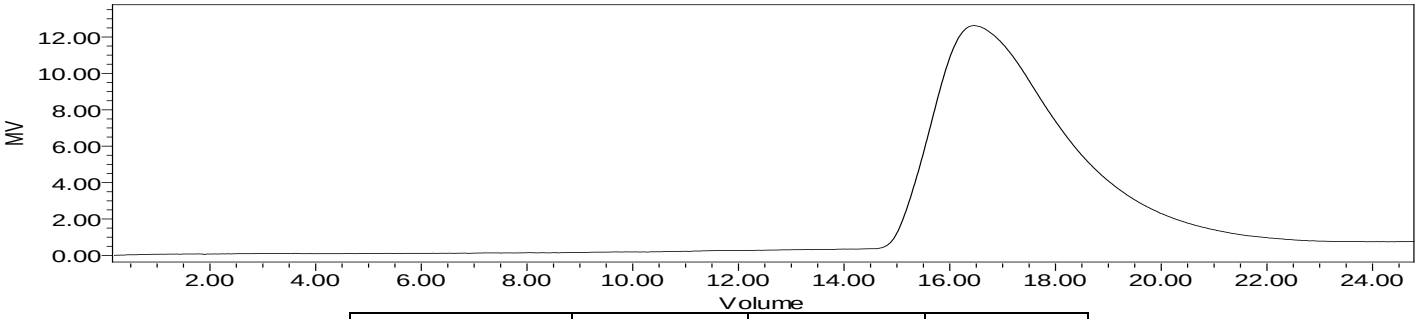
H-NMR Spectrum of copolymers in CDCl3 (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA copolymer: LA-GA =74%-26% molar ratio (LA:GA 78%:22% w:w)

FTIR



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

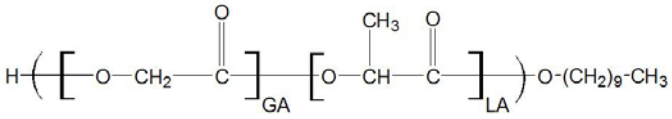
GPC-ES



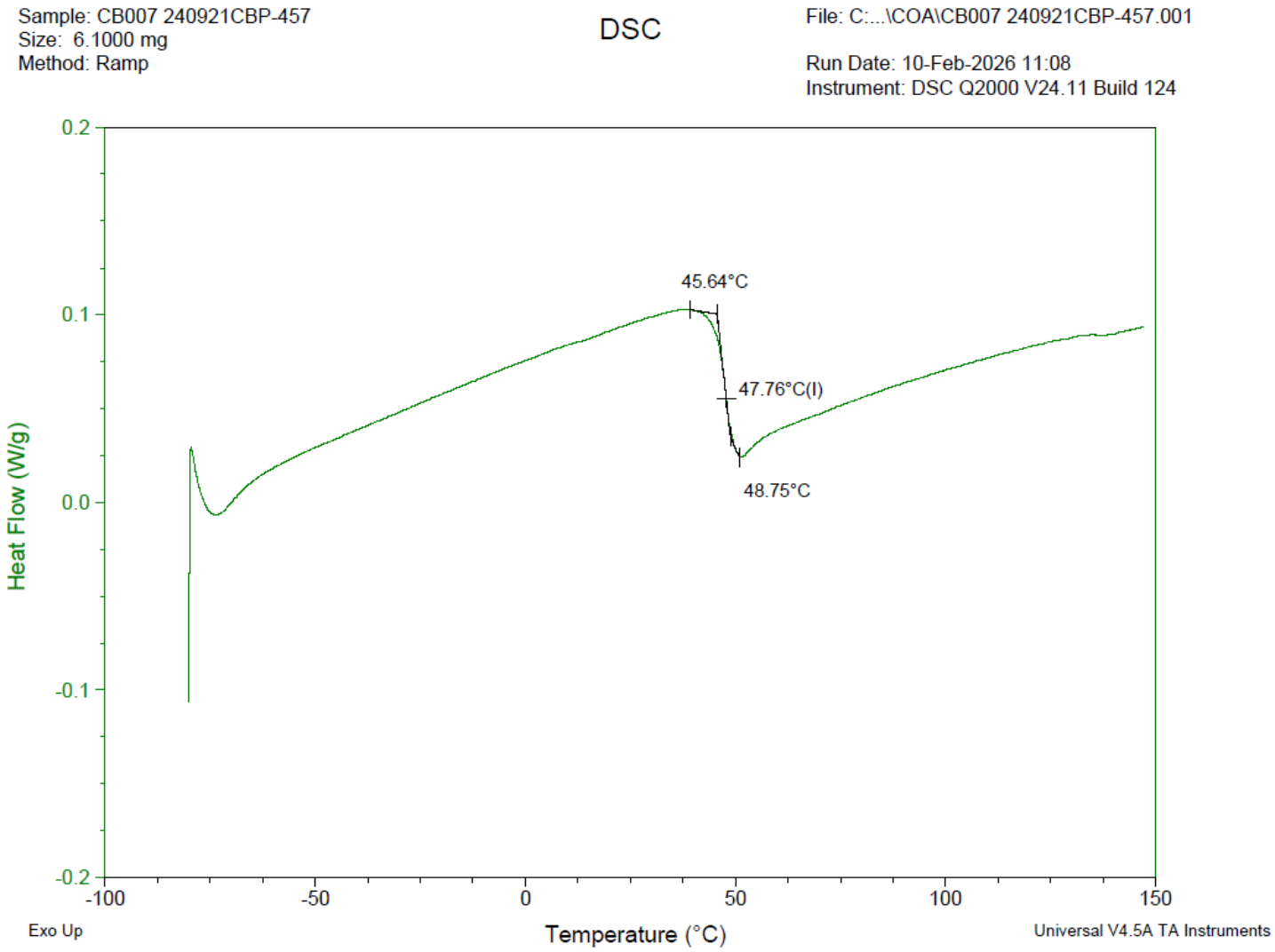
Polymer	M_n (from GPC)	M_w (from GPC)	PDI
PLGA	72,765	104,957	1.44

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.

Structure of Polymer



DSC



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 = 47.76 °C

Corbion

Manufacturer Provided Data

Assay	Specification	Result
Tin content	<50 ppm	12 ppm
Water content	<0.50%	0.05%
Residual monomer, DL Lactide	<2.0%	1.1%
Residual monomer, Glycolide	<2.0%	0.0%
Inherent Viscosity[2]	0.56-0.84 dL/g	0.77 dL/g
Residual solvent	<890 ppm	166 ppm

1 – Measured by titration

2 – Measured at 25 ºC in Chloroform, c= 0.5 g/dL

Approved By:
Amie Tyler
Quality Manager