

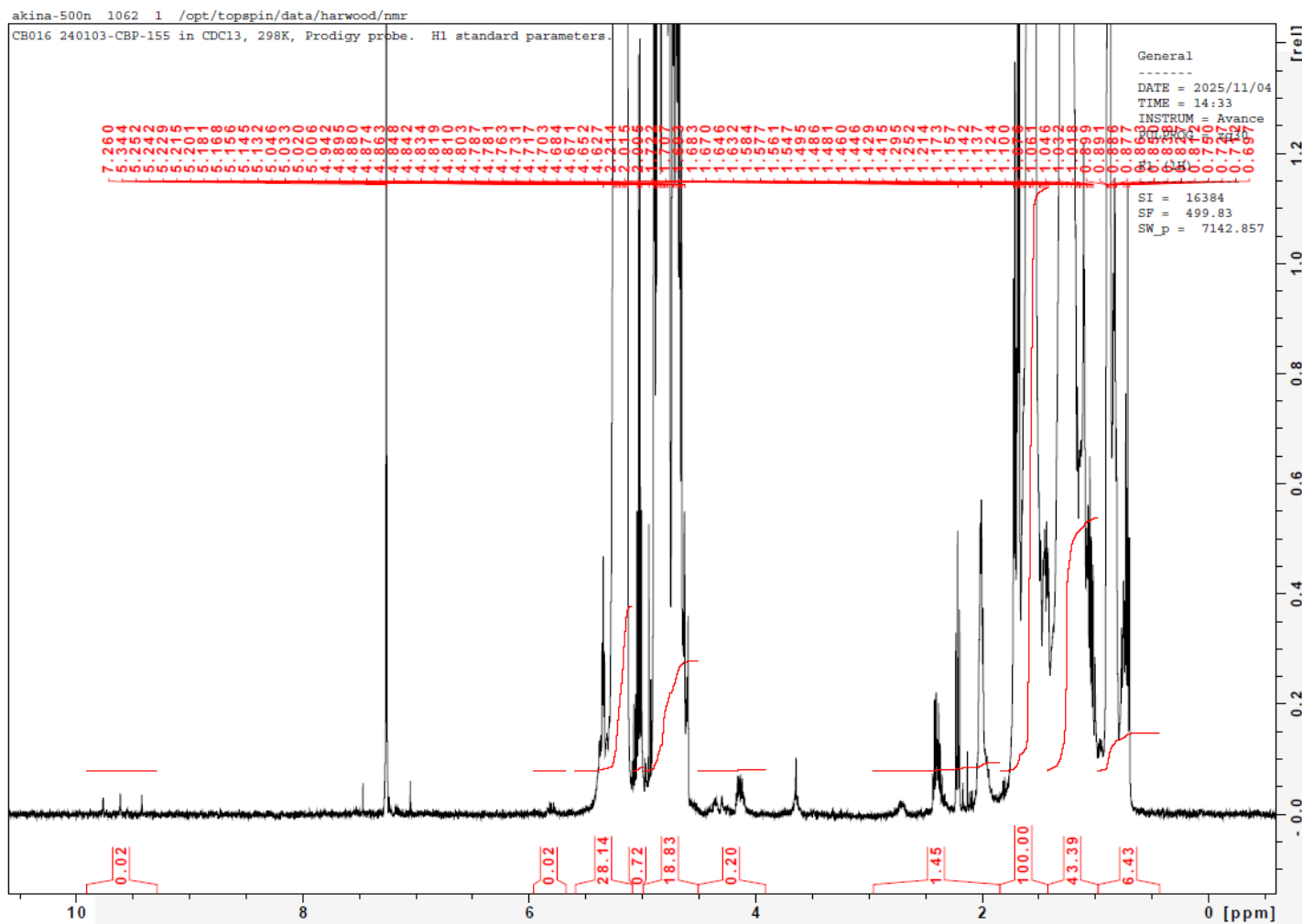
No. CB016

Certificate of Analysis



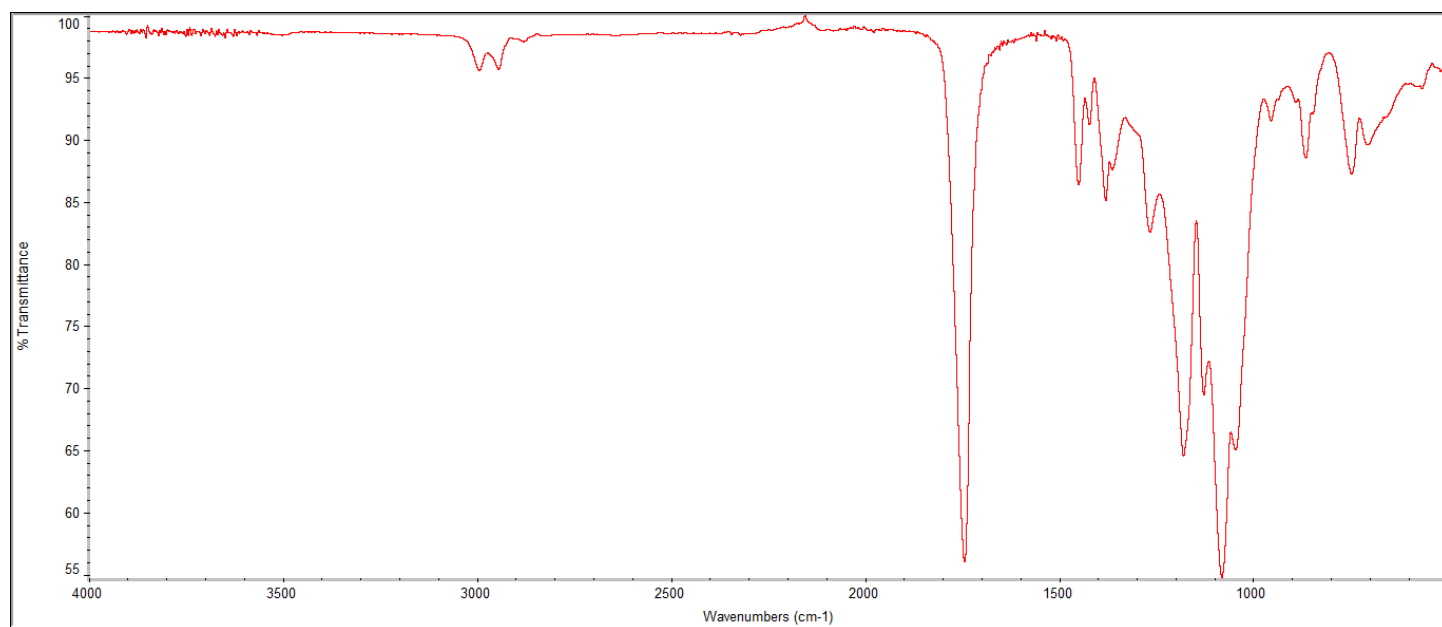
Product Name: Poly(D,L-Lactide-co-glycolide) I.V. 0.80 – 1.2 dl/g, LG 75:25, ester endcap (PDLG 7510) (Lot # 240103CPB-155)

H-NMR



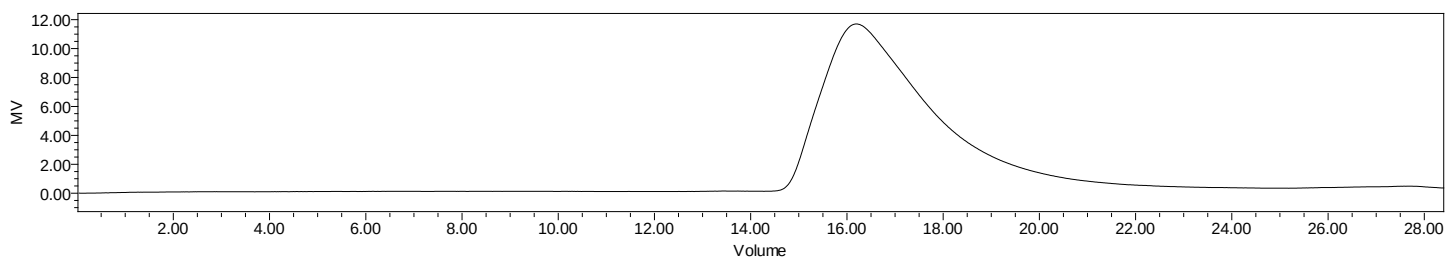
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA copolymer: LA-GA =75%-25% molar ratio (LA:GA 79%:21% w:w)

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	90,714	129,189	1.42

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.

DSC

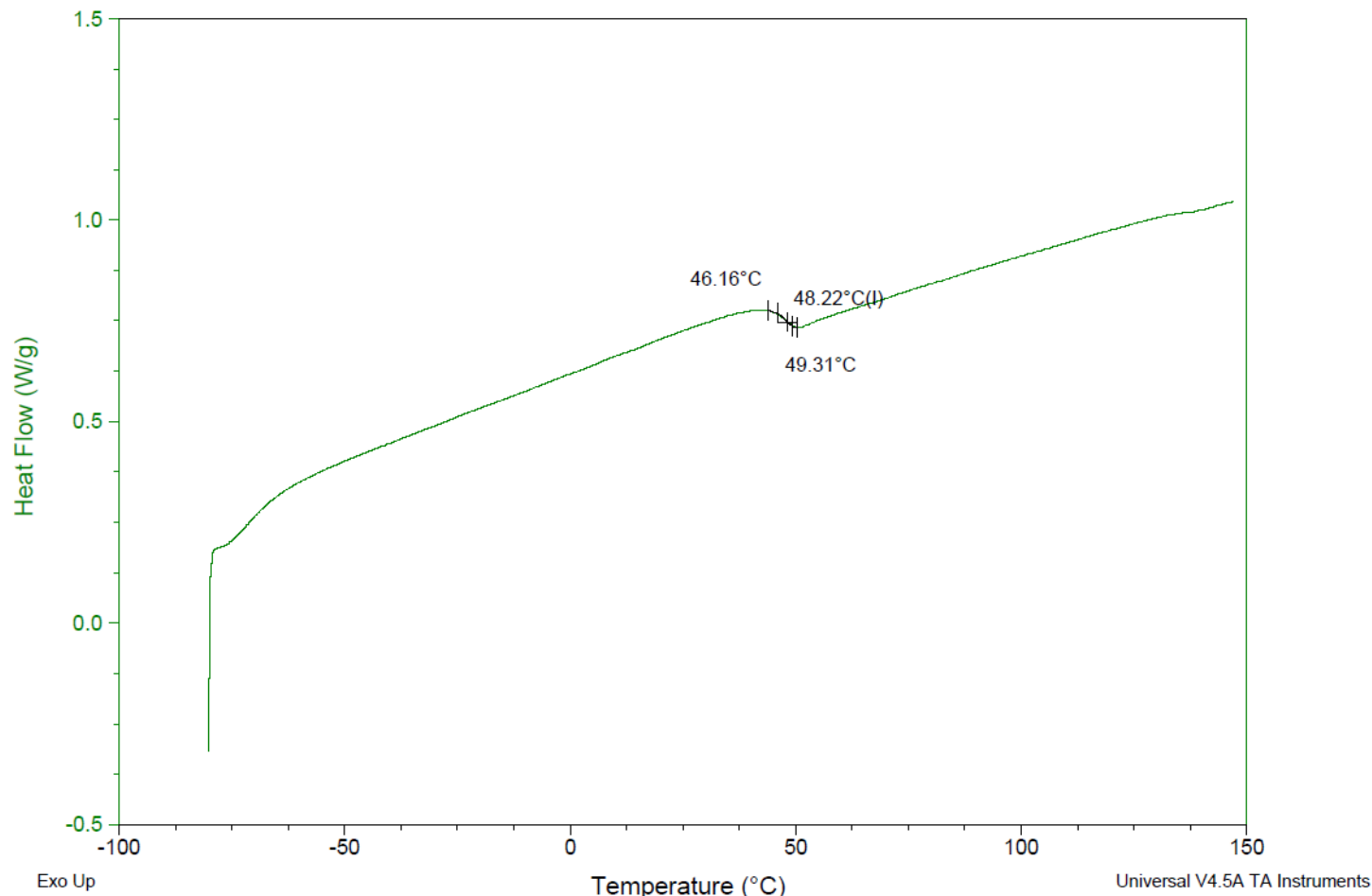
Sample: CB016 240103CBP-155
Size: 3.2000 mg
Method: Ramp

DSC

File: C:\COA\CB016 240103CBP-155.001

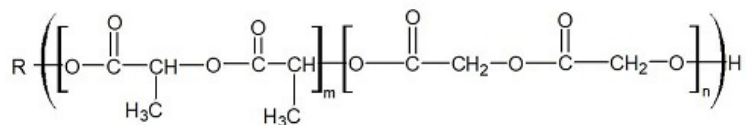
Run Date: 05-Nov-2025 16:06

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 = 48.22 °C

Structure of copolymers



Endcap "R" = [-H] for acid, [-(CH₂)₉CH₃] for ester

Manufacturer Provided Data

Assay	Specification	Result
Tg, DSC, 10 °C/min	43-53 °C	48.6 °C
Tin content	<50ppm	13 ppm
Water content ¹	<0.50%	0.03%
Residual monomer, DL Lactide	<2%	1.1%
Residual monomer, Glycolide	<2%	<0.0%
Inherent Viscosity ²	0.85-1.05 dL/g	0.98 dL/g
Endotoxin	<6 EU/g	0.25 EU/g
Residual solvent, total	<0.10%	0.01 %
Residual solvent, Toluene	<890 ppm	86 ppm
Residual solvent, Ethyl Acetate	<5000 ppm	6 ppm

1 – Measured by titration

2 – Measured at 25 °C in Chloroform c=0.1 g/dL

Approved By:
Amie Tyler
 Quality Manager