

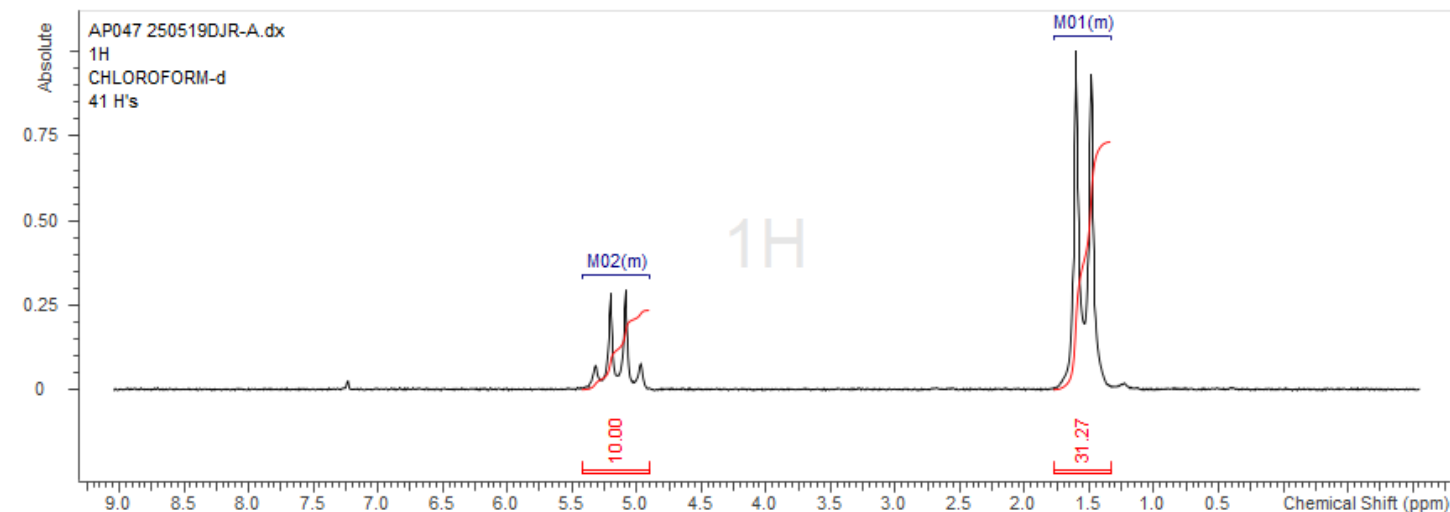
No. AP035

Certificate of Analysis



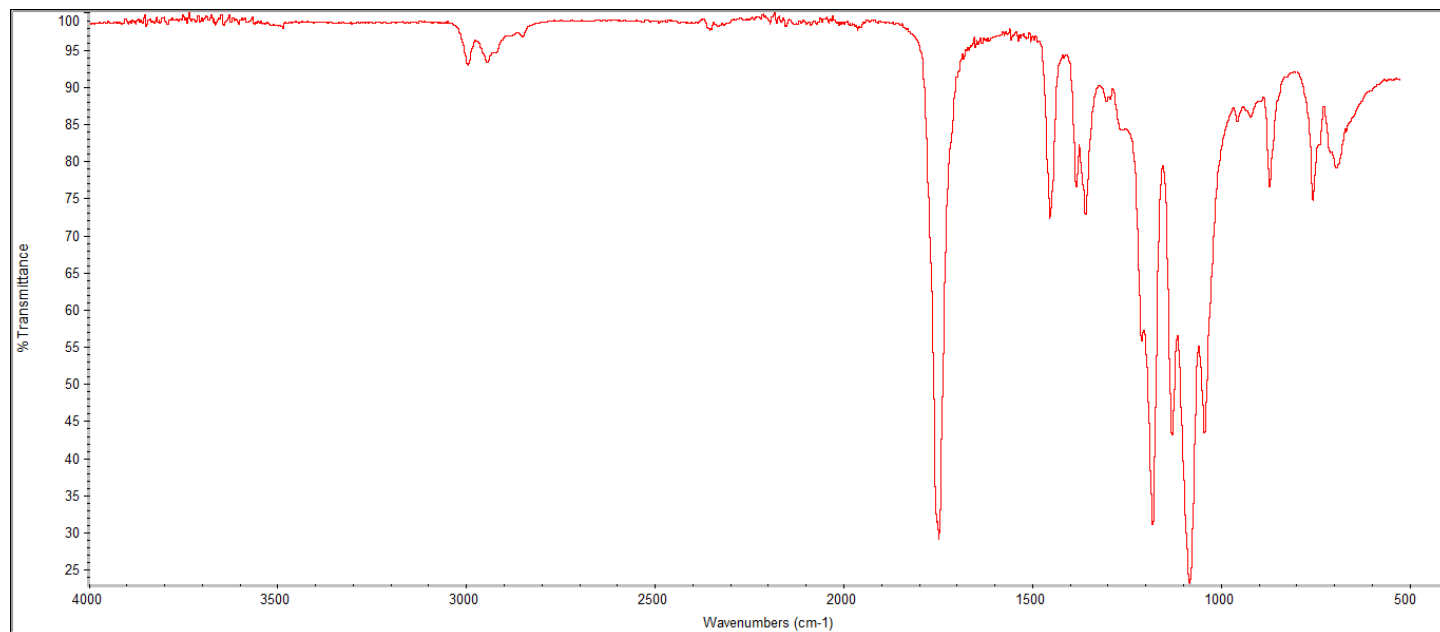
Product Name: Poly((L)Lactic acid) acid endcap (M_n : 55,000-65,000 Da)
(Lot#: 250519DJR-A)

H-NMR



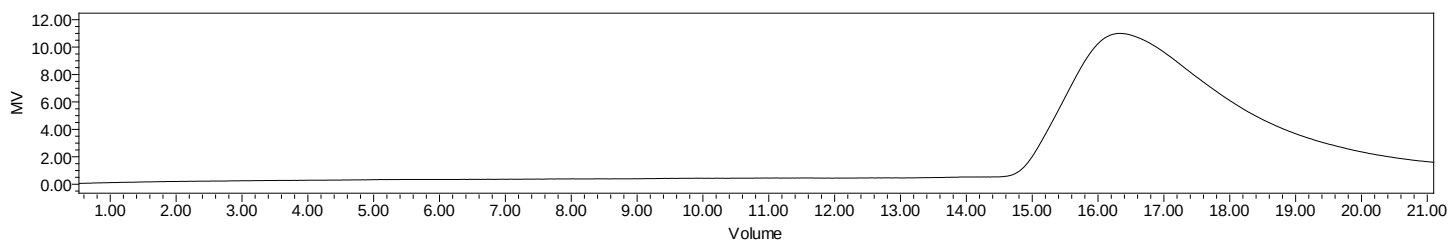
H-NMR Spectrum of copolymers in CDCl₃ (NMReady-60e, Nanalysis 60 MHz) NMR of PLGA copolymer

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
PLLGA	63,467	105,351	1.66

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

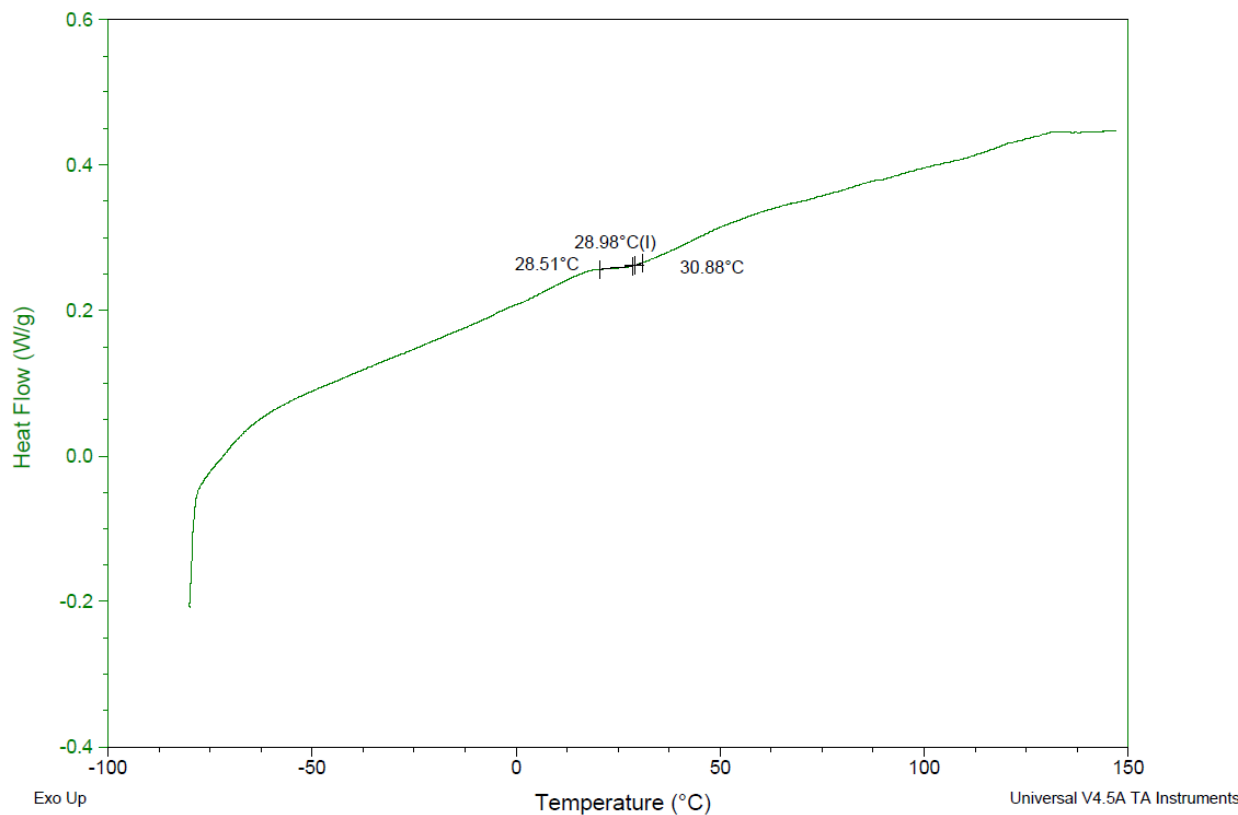
Sample: AP035 250519DJR-A
Size: 4.1000 mg
Method: Ramp

DSC

File: C:\...\COA\AP035 250519DJR-A DSC.002

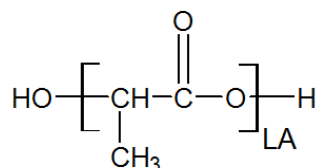
Run Date: 23-May-2025 09:29

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 = 28.98 °C

Structure of copolymers



Approved By:
Amie Tyler