

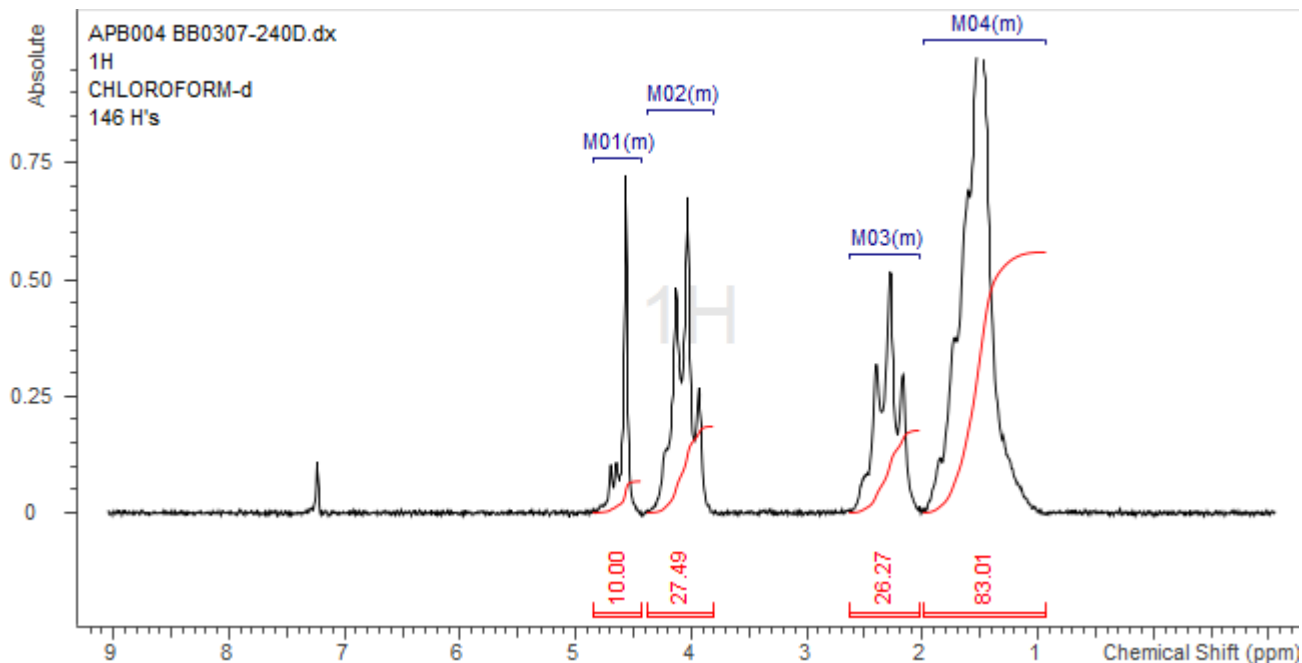
No. APB004

# Certificate of Analysis



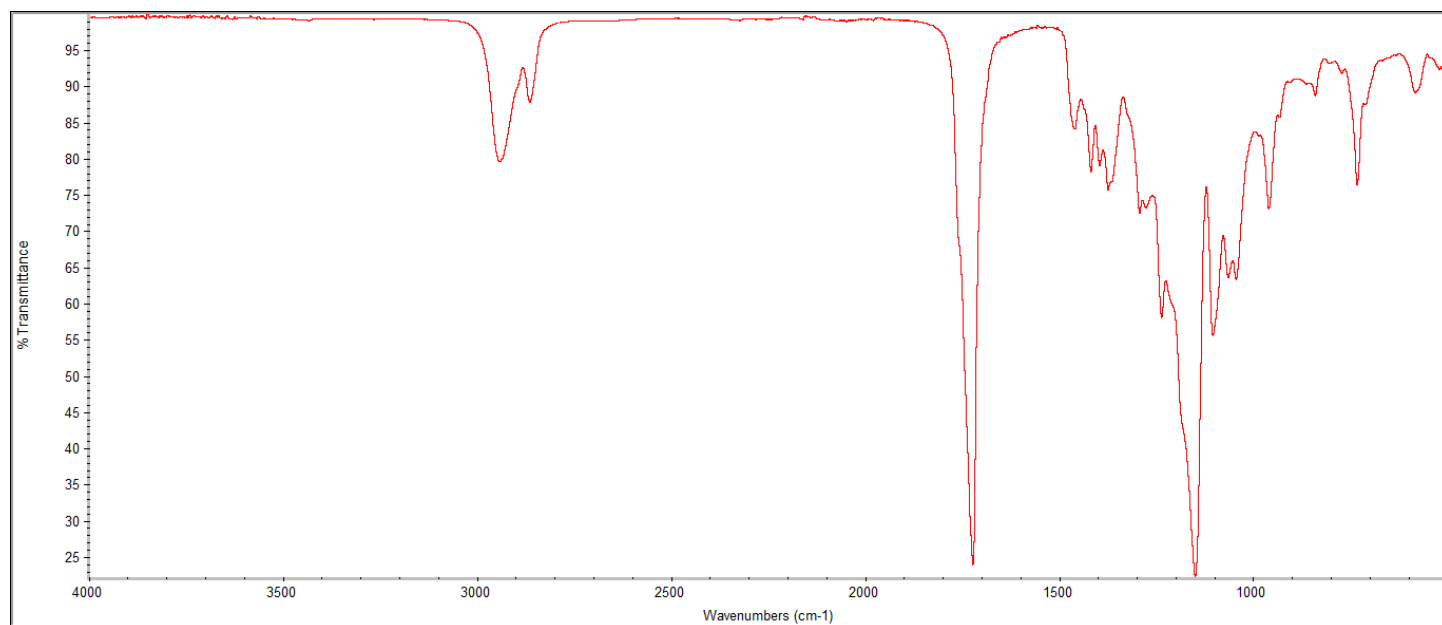
Product Name: Capromaxx CG8515 (Caprolactone/glycolide 85/15 copolymer)  
(Lot#: BB0307-240D)

## H-NMR



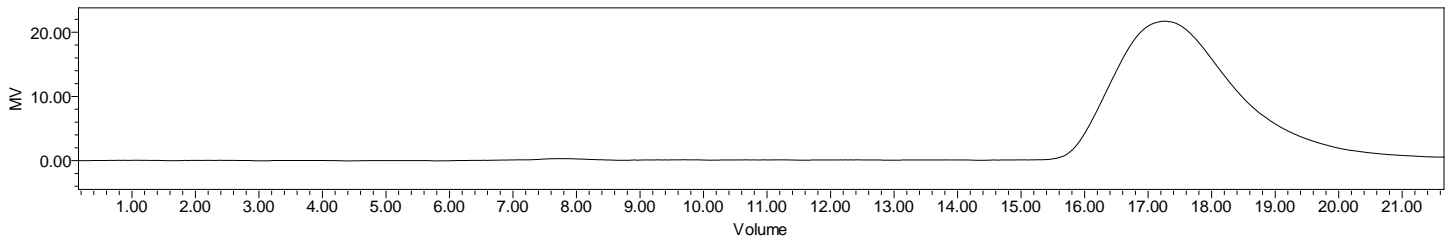
H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (NMReady-60e, Nanalysis 60 MHz) NMR of CG8515 copolymer

## FTIR



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

# GPC-ES



Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
CG8515	100,485	162,944	1.62

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

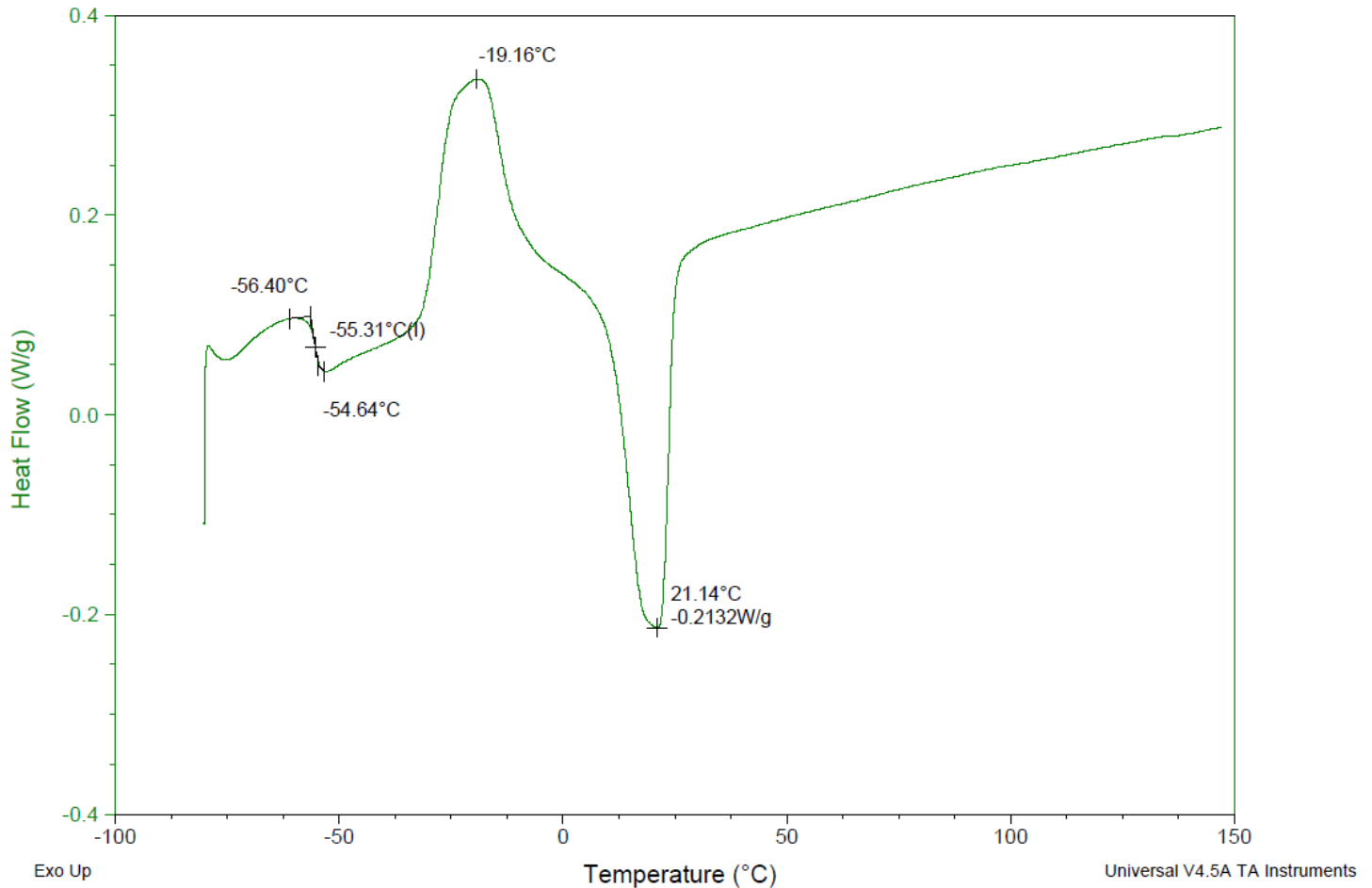
Sample: APB004 BB0307-240D  
Size: 6.9000 mg  
Method: Glass Transition-simple

## DSC

File: C:\...COA\APB004 BB0307-240D.001

Run Date: 17-Dec-2024 14:02

Instrument: DSC Q2000 V24.11 Build 124

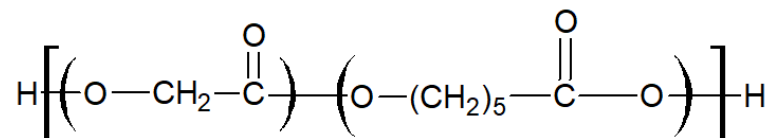


DSC Testing: 1-5 mg sample tested in crimped aluminum pan on a TA Instruments Model Q2000 with procedure equilibraion 100 °C, isothermal 5 minutes, equilibrate -80 °C, data on, ramp 10 °C/min to 150 °C. T<sub>g</sub> = -55.31 °C

### Manufacturer provided data

Test	Specification	Result
Appearance (Color)	Off white to light yellow	Off white
Appearance (Form)	Chips or chunks	Chunks
Inherent Viscosity (0.1% in chloroform at 25°C)	1.2 to 1.8 dL/g	1.60 dL/g
Residual Monomer by NMR	Max. 1.0 mole % Glycolide Max. 1.0 mole % Caprolactone	0.08% 0.34%
Polymer Composition by NMR	PCL 84-88 (Mole %) PGA 12-16 (Mole %)	85.01% 14.99%

### Structure of copolymers



Approved By:  
*Amie Tyler*  
Quality Manager