

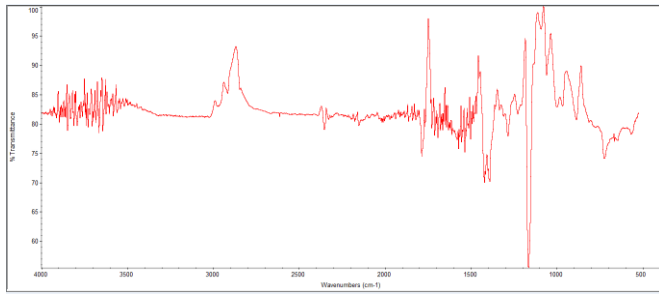
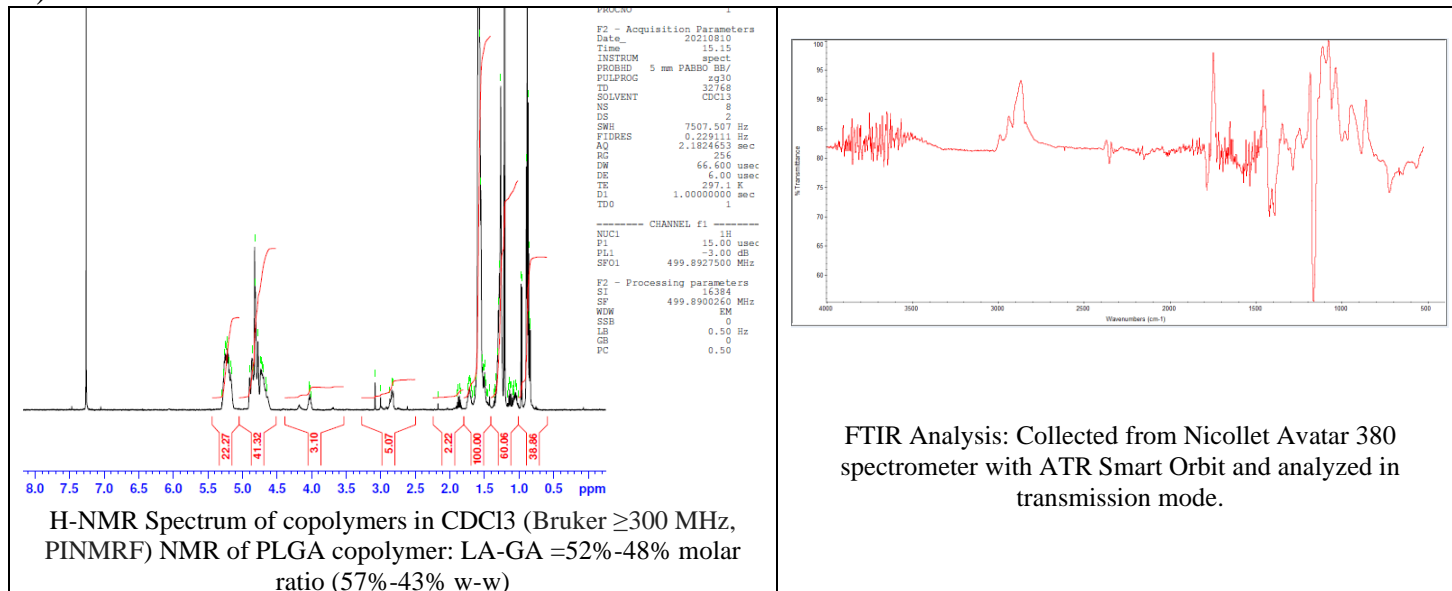
No. AI221

# Certificate of Analysis



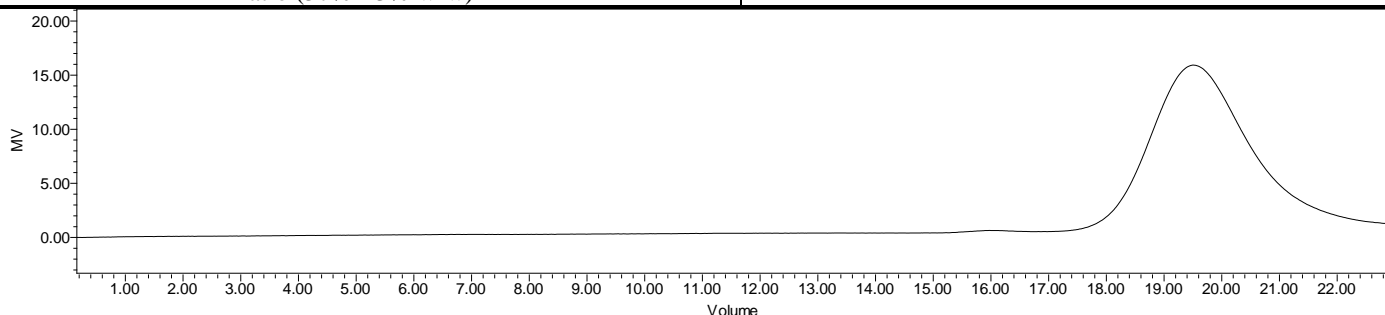
Product Name: Poly(lactide-co-glycolide) 4-arm pentaerythrytol

-N-hydroxysuccinimide endcap (50:50 LA:GA, Mw ~20,000 – 40,000 Da) (Lot# 210804RAI-A)



FTIR Analysis: Collected from Nicolet Avator 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =52%-48% molar ratio (57%-43% w-w)



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.

Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-4ARM-PAE-NHS	26,478	36,318	1.37

## Structure of PLGA 4ARM-PAE-NHS copolymers

