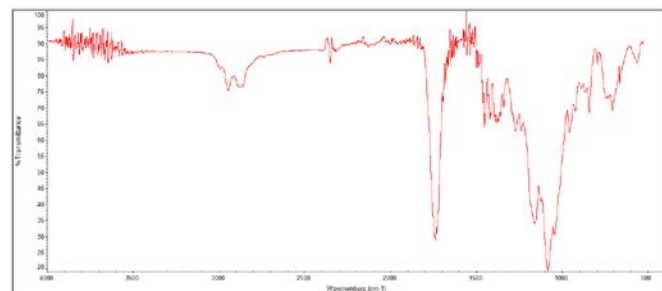
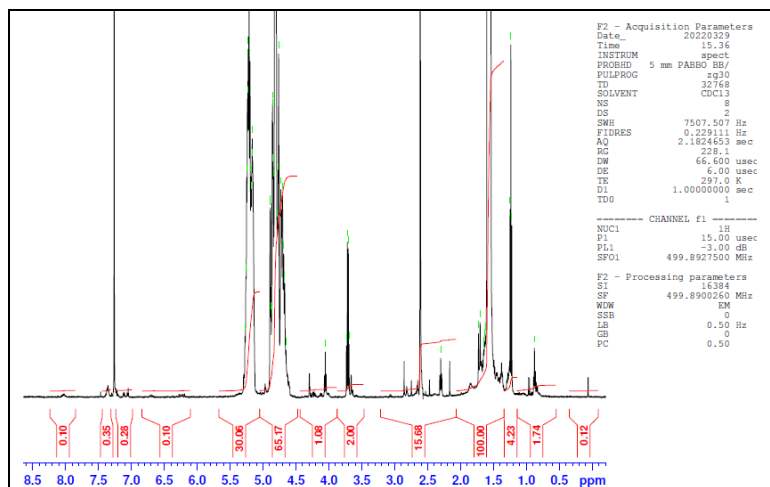


No. AV034

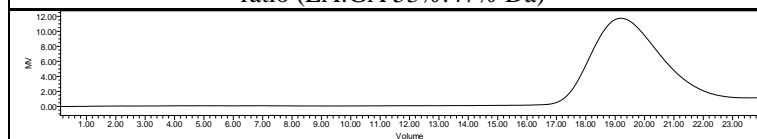
Certificate of Analysis

Product Name: Poly(lactide-co-glycolide)-Cyanine 5 (Mn 30,000-55,000Da)
(Lot#: 220323AHT-A)



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

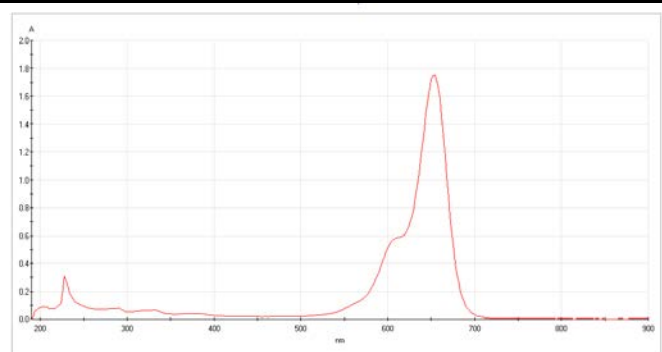
H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =48%-52% molar ratio (LA:GA 53%:47% Da)



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 _n (from GPC)	M _w (from GPC)	PDI
PLGA-CY5	31,551	48,308	1.53

*- from MFG data



UV-Vis Analysis PLGA-CY5

Analysis method: Scan from 190-900nm in 2nm increments of 0.25 mg/ml PLGA-CY5 solution in DCM against DCM blank. Testing of absorbance at 653 nm as compared to a series of CY5 standards has indicated a dye content of 247 µg/mL.

Structure of PLGA-CY7 copolymers

