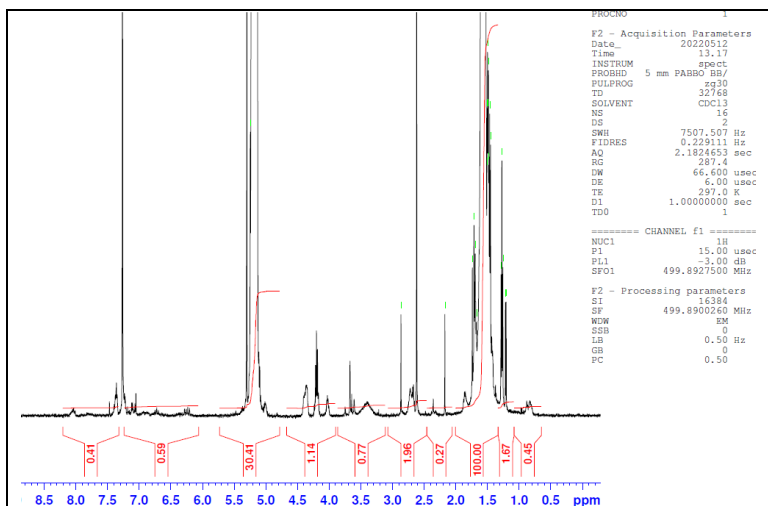


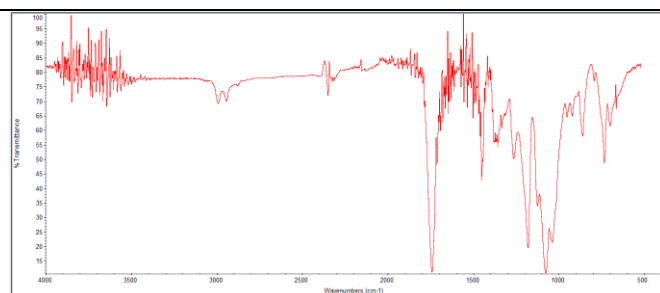
No. AV032

Certificate of Analysis

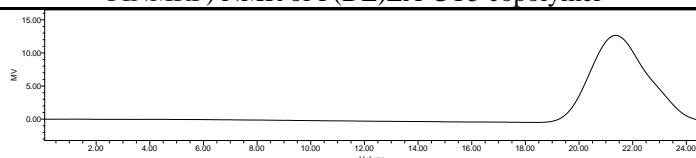
Product Name: Poly(D,L) lactic acid-Cyanine 5 (Mn 10,000-15,000Da)
(Lot#: 220502RAI-B)



H-NMR Spectrum of copolymers in CDCl₃ (Bruker 500 MHz, PINMRF) NMR of P(DL)LA-CY5 copolymer

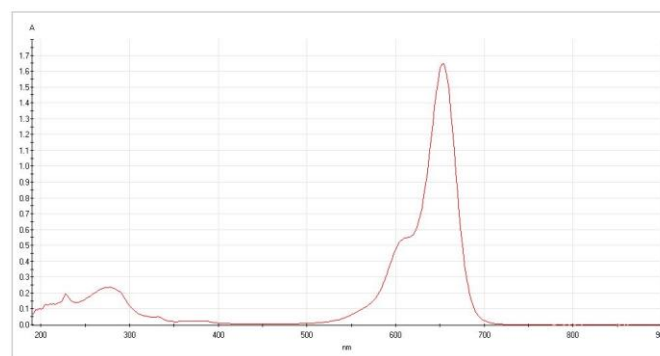


FTIR Analysis: Collected from Nicolet Avator 320 spectrometer and analyzed in transmission mode.



GPC 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
PDLLA-CY5	10,185	12,692	1.25



UV-Vis Analysis P(DL)La-CY5

Analysis method: Scan from 190-900nm in 2 nm increments of 0.041 mg/ml P(DL)La-CY5 solution in DCM against DCM blank.

Structure of P(D,L)La-CY5 copolymers

