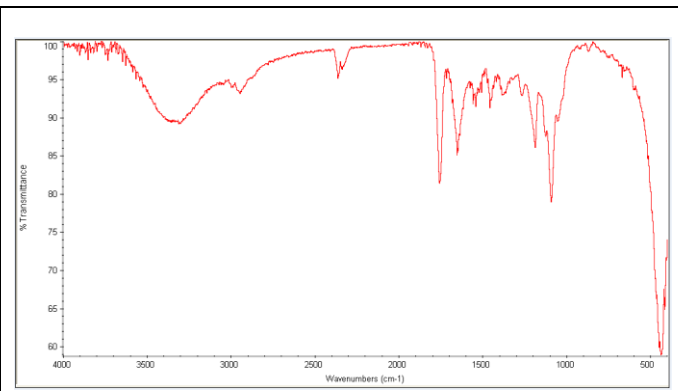
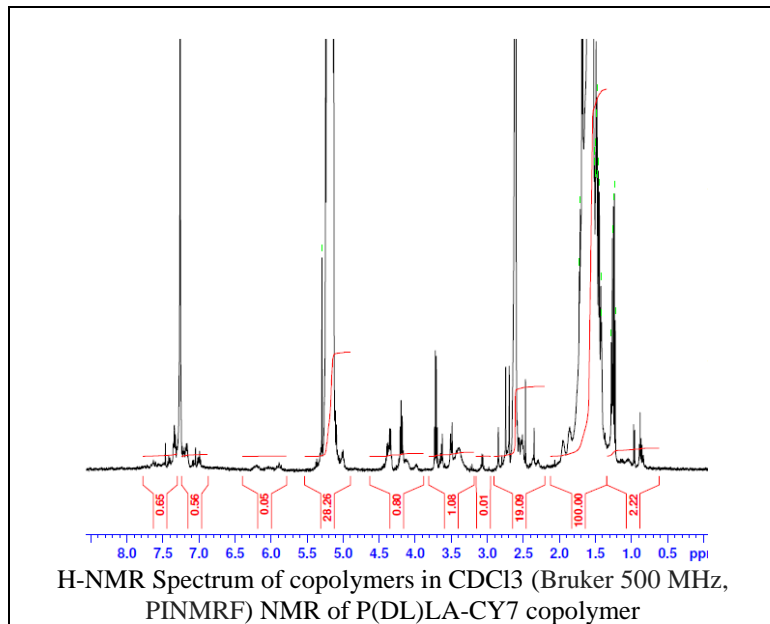


No. AV033

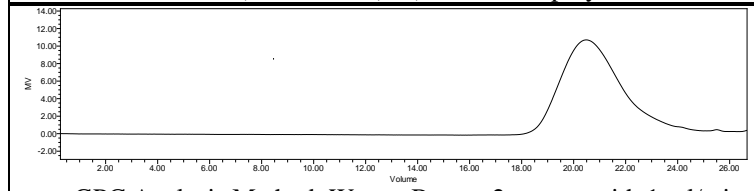
Certificate of Analysis



Product Name: Poly(D,L) lactic acid-Cyanine 7 (Mn 10,000-15,000Da)
(Lot#: 190718RAI-B)

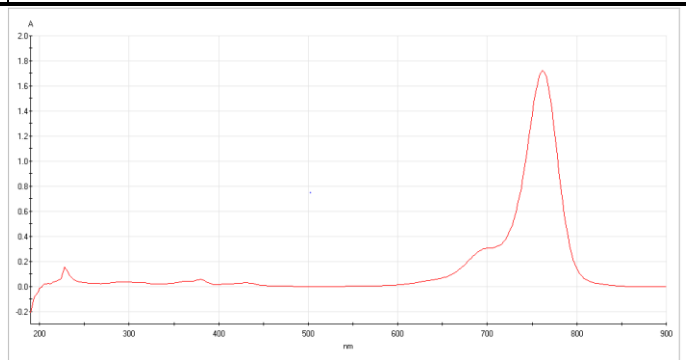


FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Nicolet Avatar 320 spectrometer and analyzed in transmission mode.



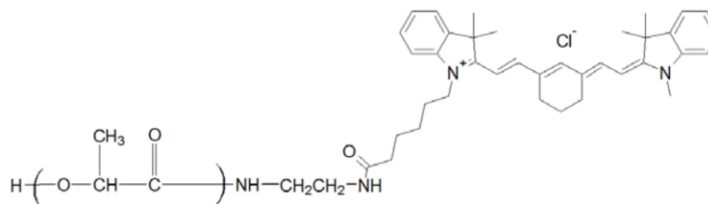
GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	M _n (from GPC)	M _w (from GPC)	PDI
PDLLA-CY7	11,241	18,867	1.68



UV-Vis Analysis P(DL)La-CY7
Analysis method: Scan from 190-900nm in 2nm increments of 0.1 mg/ml P(DL)La-CY7 solution in DCM against DCM blank.

• Structure of P(D,L)La-CY7 copolymers



Dye content : Testing of absorbance of polymer in DCM at 762 nm as compared to a series of CY7-NHS standards has indicated a dye content of: 57.09 µg/mg polymer.