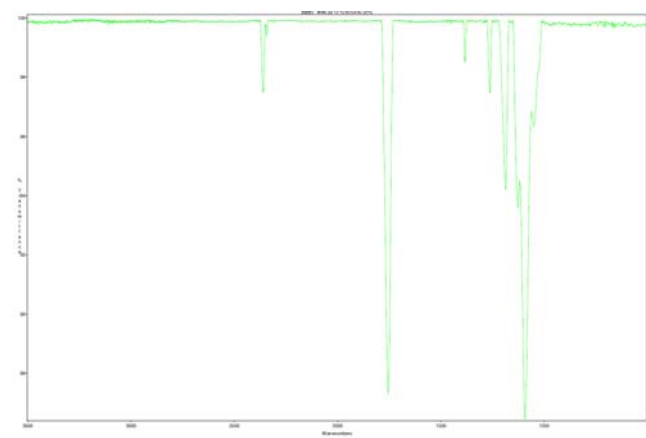
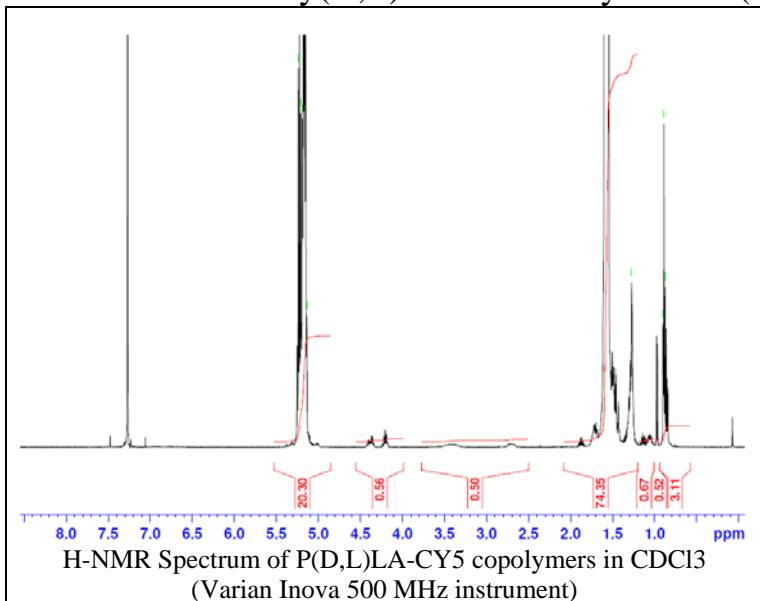
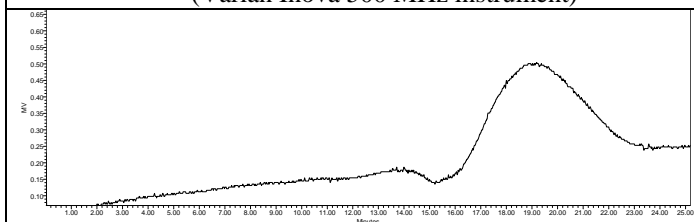


No. AV032 Certificate of Analysis

Product Name: Poly(D,L) lactic acid-Cyanine 5 (Mn 10,000-15,000Da) (Lot#: 60628BPR-B)

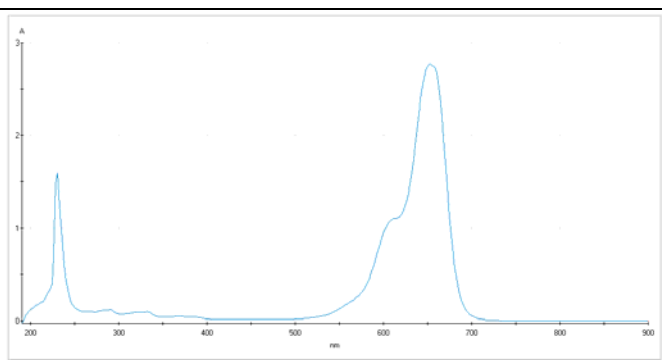


FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.



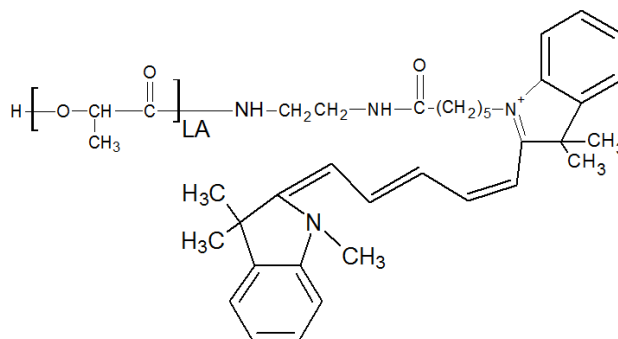
GPC analysis of P(D,L)La-CY5 copolymers
Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three 7.6 x 300mm GPC columns (mixed porosities). Detection via refractive index, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
P(D,L)La-CY5	14,631	24,594	1.68



UV-Vis Analysis P(DL)La-CY5
Analysis method: Scan from 190-900nm in 2nm increments of 5 mg/ml P(DL)La-CY5 solution in DCM against DCM blank.

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



Material provided for research use only. Not for human use.