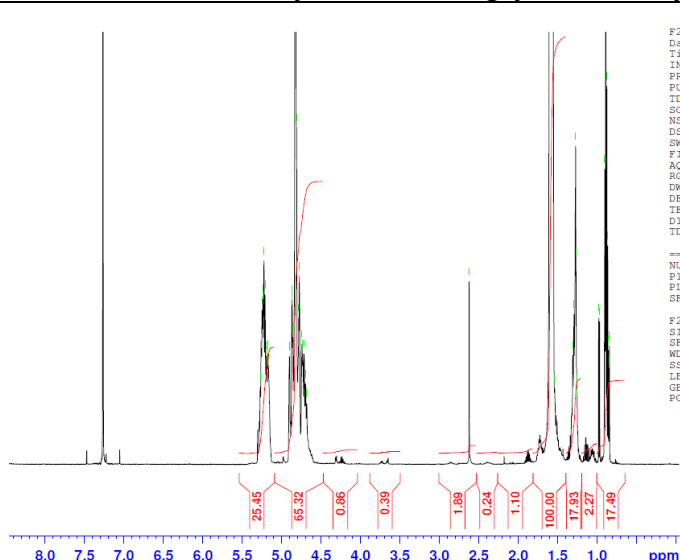
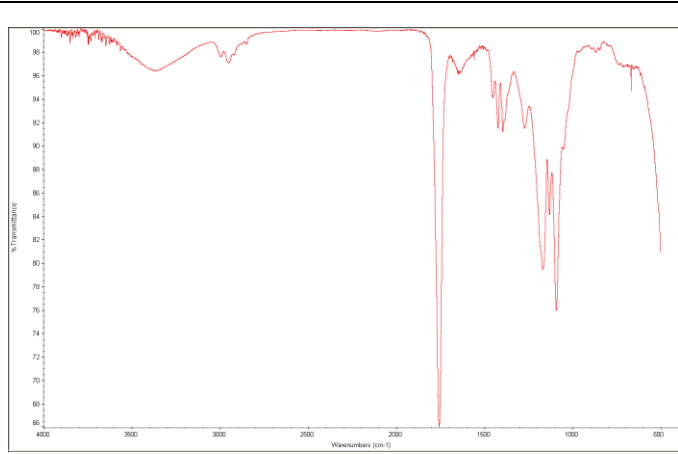


No. AV034 Certificate of Analysis

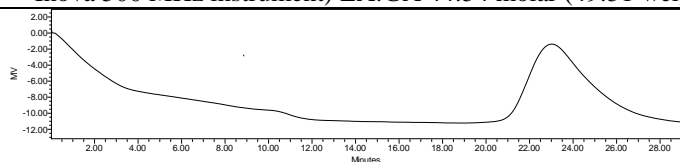
Product Name: Poly(lactide-co-glycolide)-Cyanine 5 (Mn 45,000-55,000Da) (Lot#: 70329JSG-A)



H-NMR Spectrum of PLGA-CY5 copolymers in CDCl₃ (Varian Inova 500 MHz instrument) LA:GA 44:54 molar (49:51 weight)



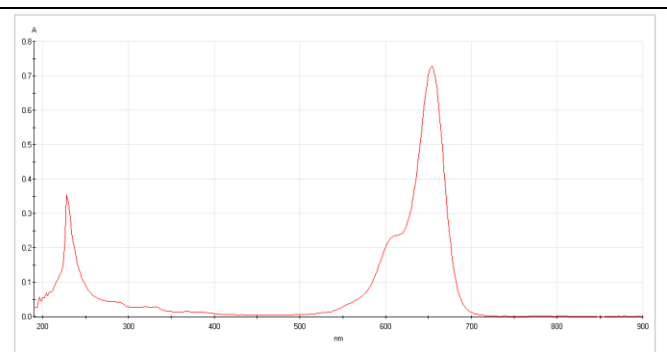
FTIR Analysis: Collected from cast-film on KBR salt-plate placed in FTIR (Nicolette Protégé 460 ESP) and analyzed in transmission mode.



GPC analysis of PLGA-CY5 copolymers

Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across four 7.6 x 300mm GPC columns (mixed porosities). Detection via refractive index, calibrated against polystyrene standards.

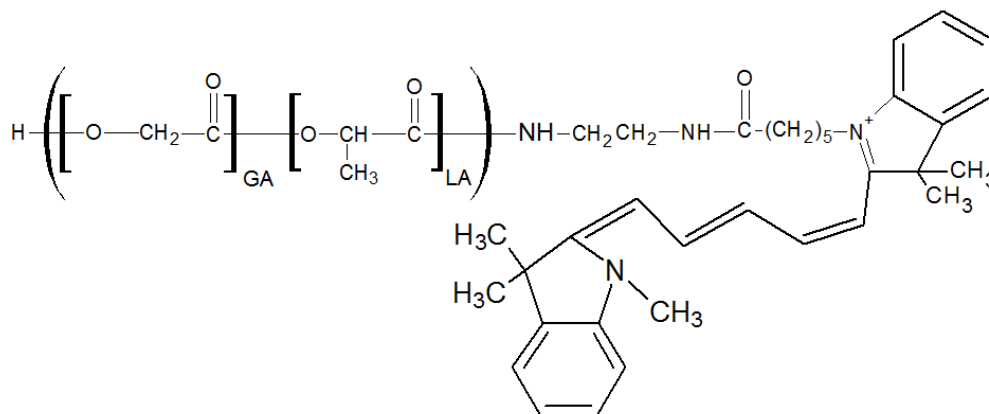
Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLGA-CY5	46,640	60,485	1.30



UV-Vis Analysis PLGA-CY5

Analysis method: Scan from 190-900nm in 2nm increments of 0.45 mg/ml PLGA-CY5 solution in DCM against DCM blank.

- Structure of PLGA-CY5 copolymers



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