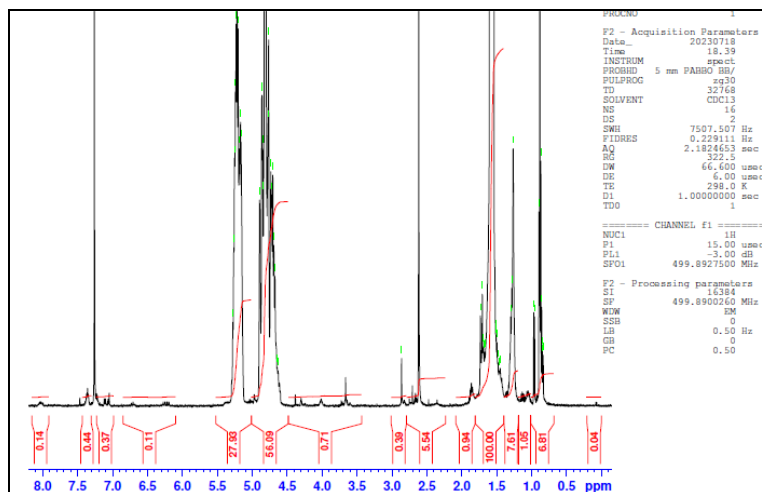


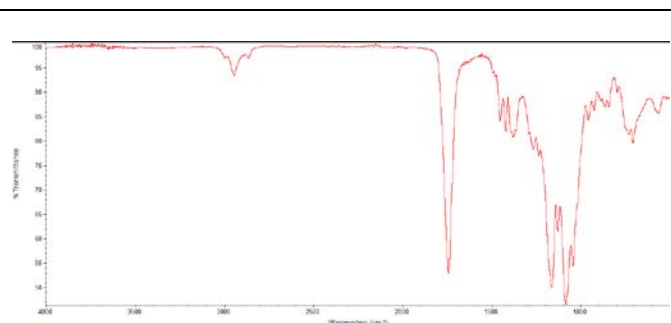
# No. AV034

# Certificate of Analysis

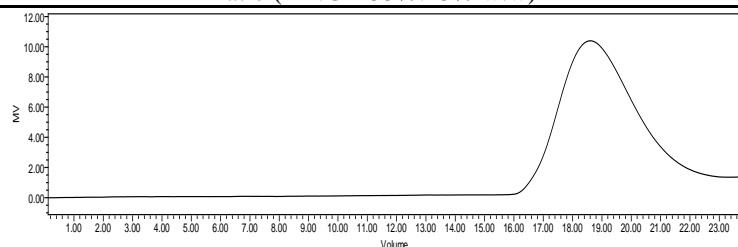
Product Name: Poly(lactide-co-glycolide)-Cyanine 5 (Mn 30,000-55,000Da)  
(Lot#: 230706TMT-B)



H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Bruker ≥300 MHz, PINMRF) NMR of PLGA copolymer: LA-GA =50%-50% molar ratio (LA:GA 55%:45% w:w)



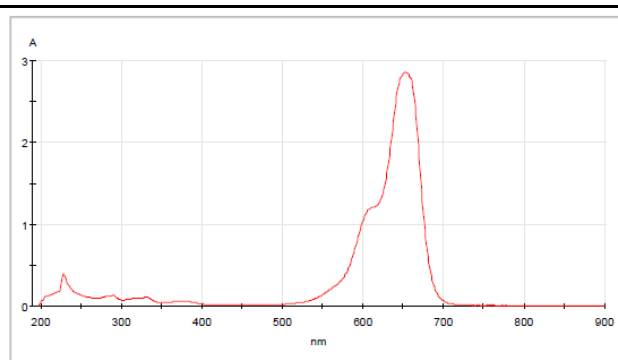
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (ThermoFisher) and analyzed in transmission mode.



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 <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-CY5	47,513	72,126	1.52

\*- from MFG data

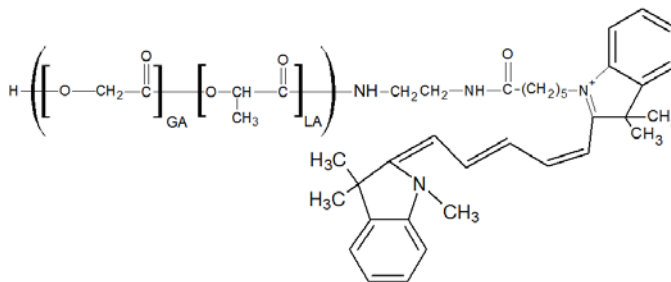


AV034 230706TMT-B.dsp

## 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 336.84 µg/mL.

## Structure of PLGA-CY7 copolymers



Approved By:  
Amie Tyler  
Quality Manager