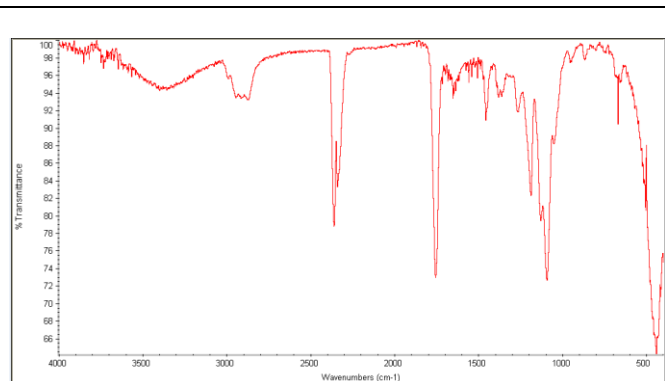
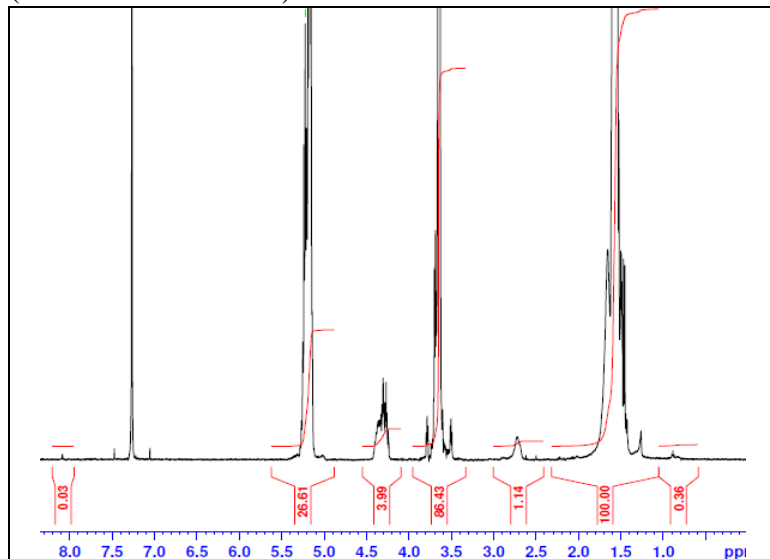


# No. AV037

# Certificate of Analysis

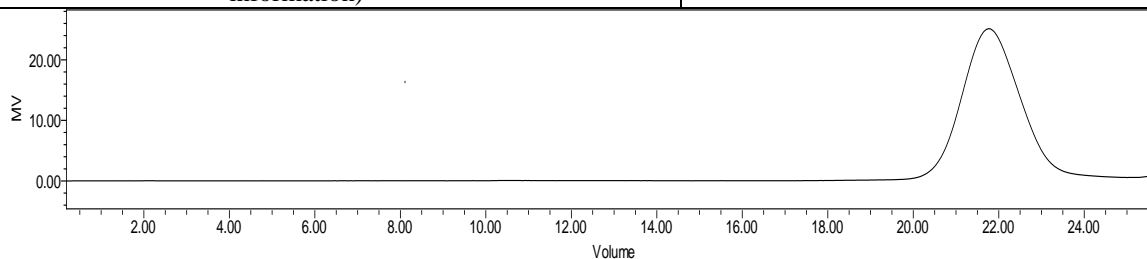


Product Name: Poly((D,L) lactic acid)-b-Poly(ethylene glycol)-b-Poly((D,L) lactic acid) (1500-1500-1500Da) - Flamma Fluor FKR648 endcap copolymer (Lot#: 180924RAI-A)



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

H-NMR Spectrum of copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument) NMR of PDLLA-PEG-PDLLA-FKR648 copolymers: EG-LA =34-42 (Mn EG-LA/GA 1498\*-3015) (\* - MFG information)



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 <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLA-PEG-PLA-FKR648	5793	6855	1.18
PEG-precursor	1498*		

- **Dye Content:** Testing of absorbance of polymer in DMSO solution at 660 nm as compared to series of FKR648 standards has indicated a dye content of: 1.08 ug/mg polymer.

- **Structure of PDLLA-PEG-PDLLA-FKR648 copolymers**

