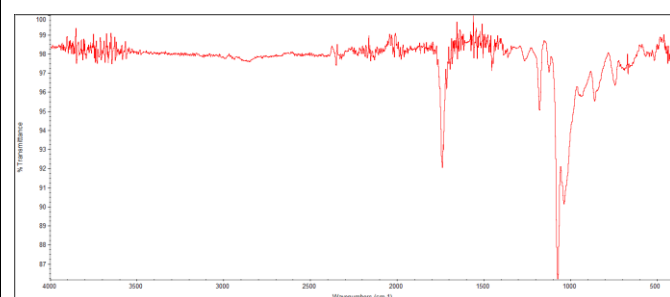
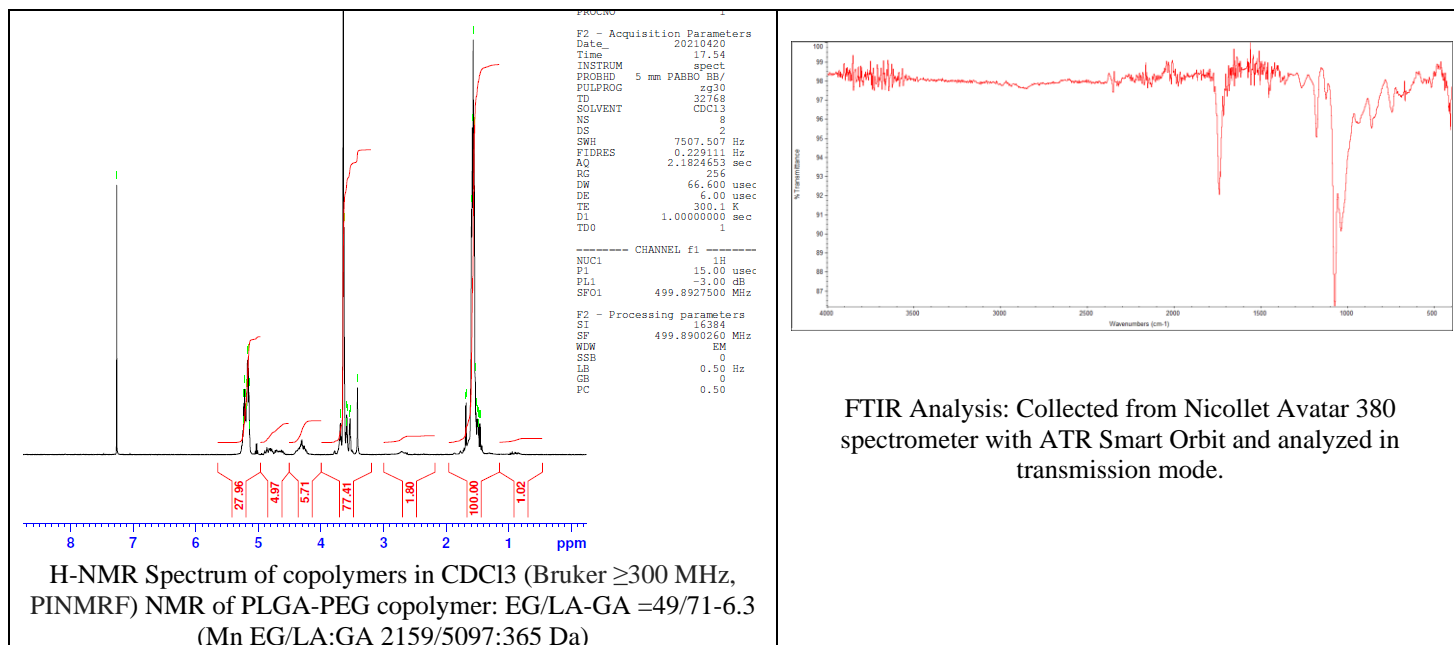


# No. AK163

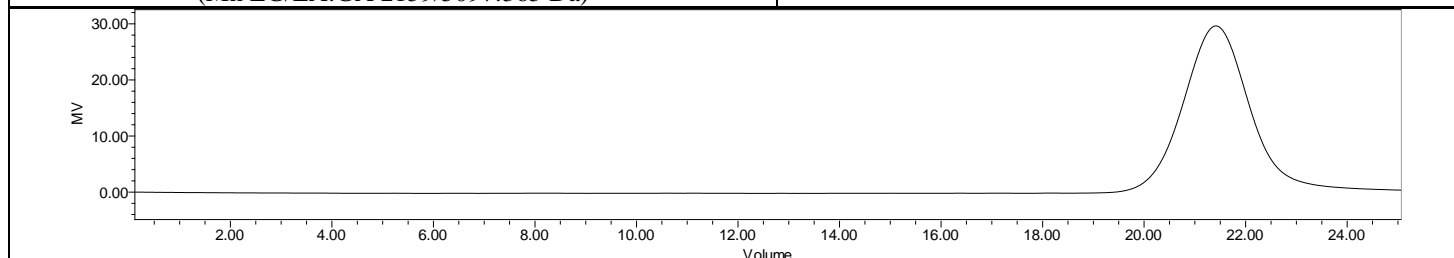
# Certificate of Analysis



Product Name: Star-Shaped Poly(lactide-co-glycolide)-b-Poly(ethylene glycol) 4-arm copolymer (1,500(4-arm)-2,000 Da, 95:5 LA:GA)  
(Lot# 210414RAI-B)



FTIR Analysis: Collected from Nicolet Avatar 380 spectrometer with ATR Smart Orbit 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 <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-PEG	8738	10507	1.20
PEG precursor*	2169*		

\*- from MFG data

## Structure of PLGA-PEG-4-arm

