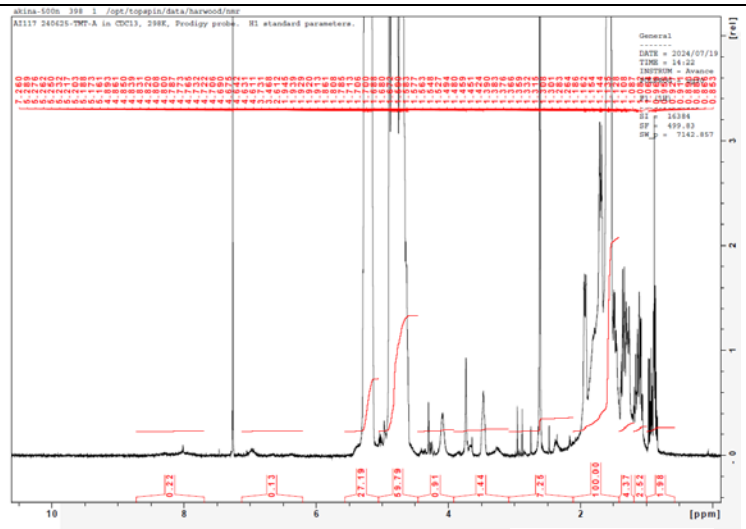
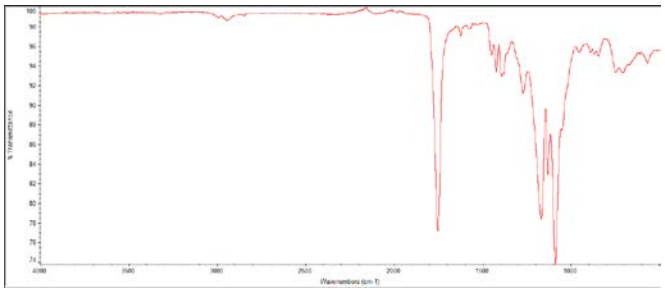
No. AI117 Certificate of Analysis

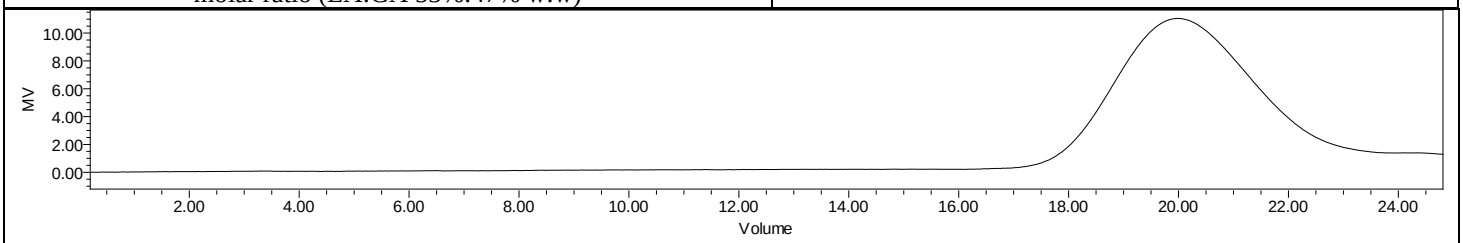
Product Name: Poly(lactide-co-glycolide)-histidine methyl ester endcap (Mn 10,000-30,000 Da LA:GA 50:50) (Lot#: 240625TMT-A)



H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-Histidine copolymer: LA-GA =48%:52% molar ratio (LA:GA 53%:47% w:w)



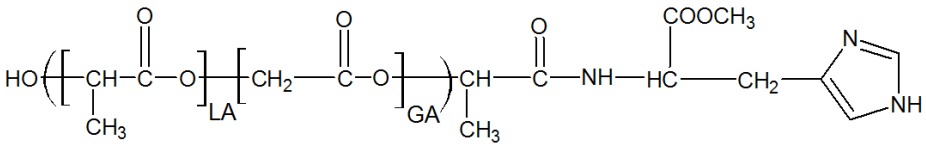
FTIR Analysis: Collected from IS5 ID7-ATR spectrometer (Thermo Scientific) and analyzed in transmission mode.



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_n (from GPC)	M_w (from GPC)	PDI
PLGA-Histidine	16,331	29,157	1.79

- **Structure of PLGA-histidine copolymers**



Approved By:
Amie Tyler
Quality Manager