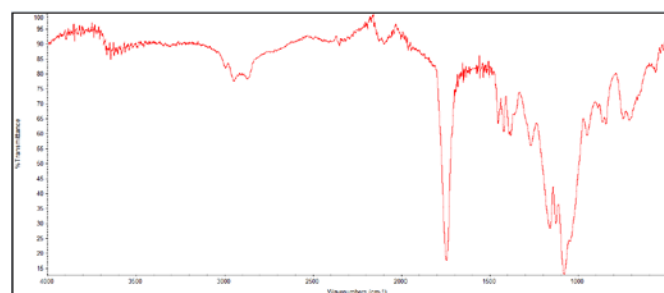
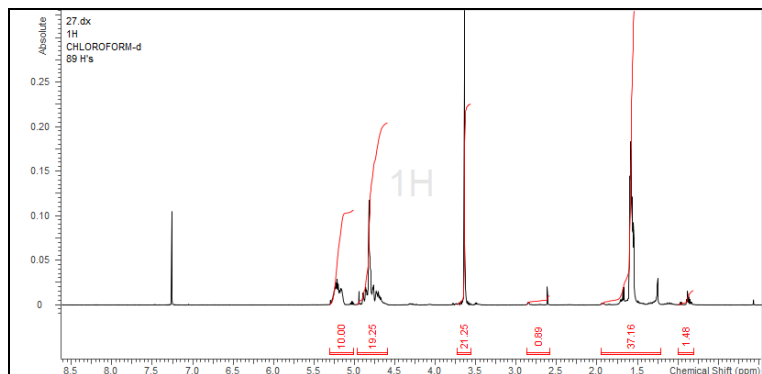


# No. AI197

# Certificate of Analysis

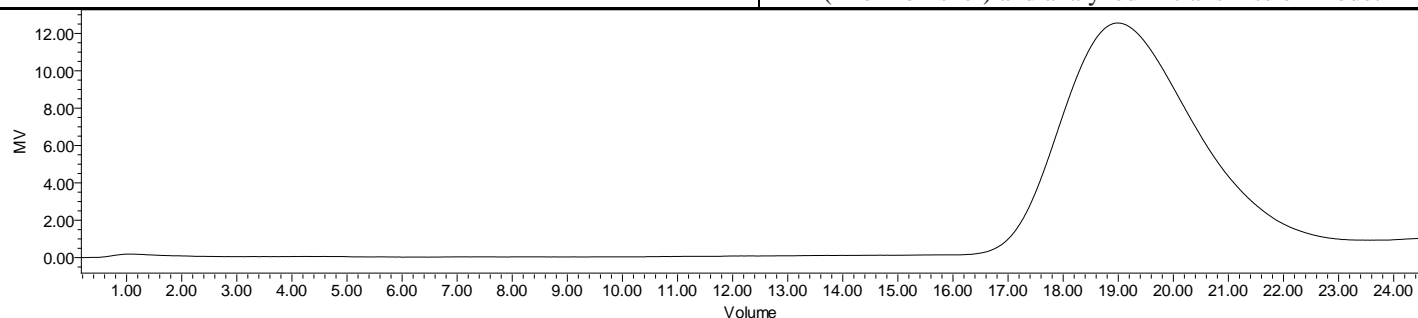


Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-N-hydroxy-succinimide endcap ( $M_w \sim 30,000-5,000$  Da) (Lot #230519TMT-A)



H-NMR Spectrum of copolymers in  $CDCl_3$  (Bruker  $\geq 300$  MHz, PINMRF) NMR of PLGA-PEG-NHS copolymer: EG\*/LA-GA = 113\*/213-205 ( $M_n$  EG\*/LA:GA 4978\*/15315-11882 Da)

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

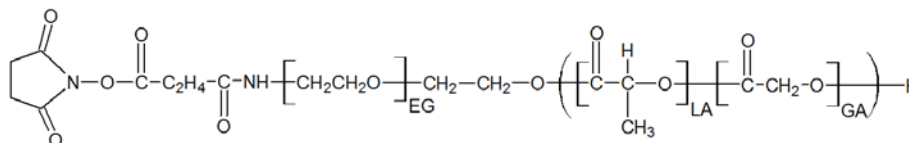


GPC-ES Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Polymer	$M_n$ (from GPC)	$M_w$ (from GPC)	PDI
PLGA-PEG	29,609	50,789	1.72
PEG-Precursor*		4996*	

\*- from MFG data

## • Structure of PLGA-PEG-NHS copolymers



Approved By:  
*Amie Tyler*  
Quality Manager