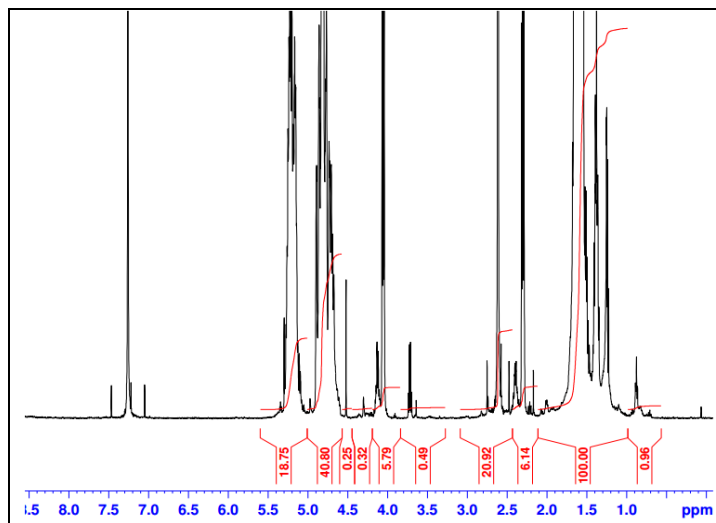


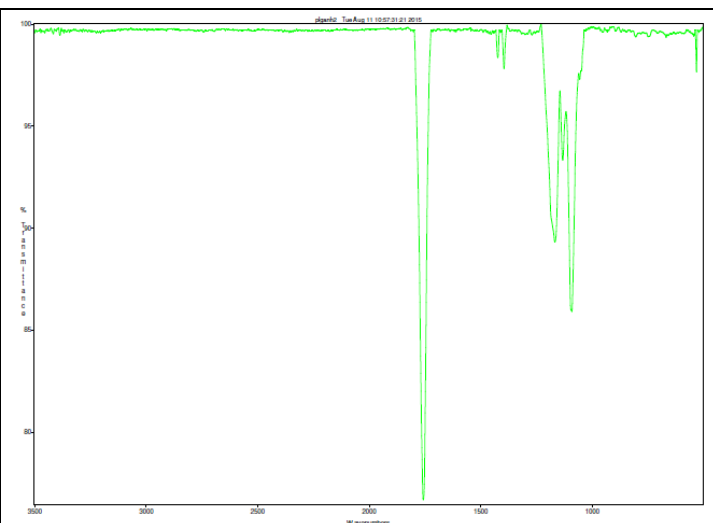
# No. AI112

# Certificate of Analysis

Product Name: Poly(lactic-co-glycolic) copolymers amine endcap (succinic dihydrazide)  
(LA:GA 50:50,  $M_n \sim 45,000\text{-}55,000$  Da) (Lot#: 50731JSG)

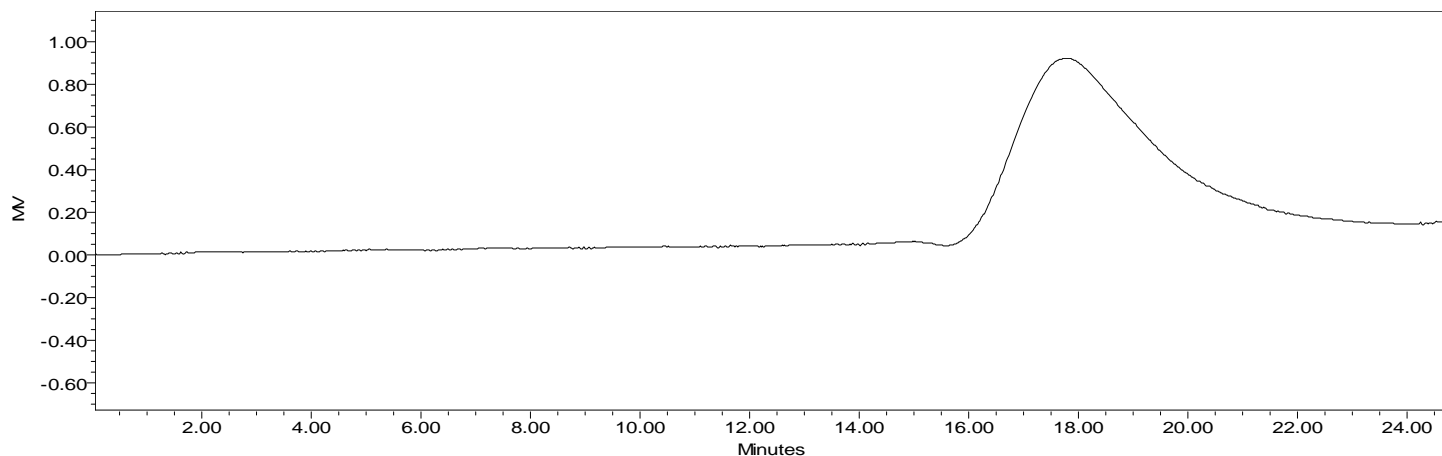


H-NMR Spectrum of PLGA copolymer in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), NMR of PLGA copolymers:  
GA/LA = 52%/48% molar ratio (47%/53% w/w)



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

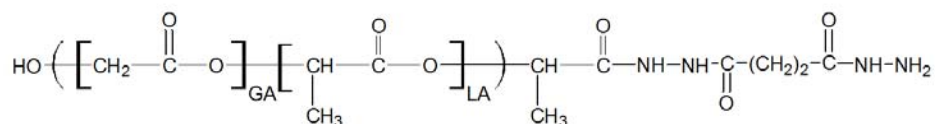
- **GPC analysis of PLGA copolymers**



Analysis Method: Waters Breeze 2 system with 1 ml/min DCM flow across three Phenogel 5um columns (Phenomenex). Detection via refractive index, calibrated against polystyrene standards.

Polymer	M <sub>n</sub> (from GPC)	M <sub>w</sub> (from GPC)	PDI
PLGA-NH <sub>2</sub>	45,968	65,744	1.43

- **Structure of PLGA-NH<sub>2</sub> copolymer**



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