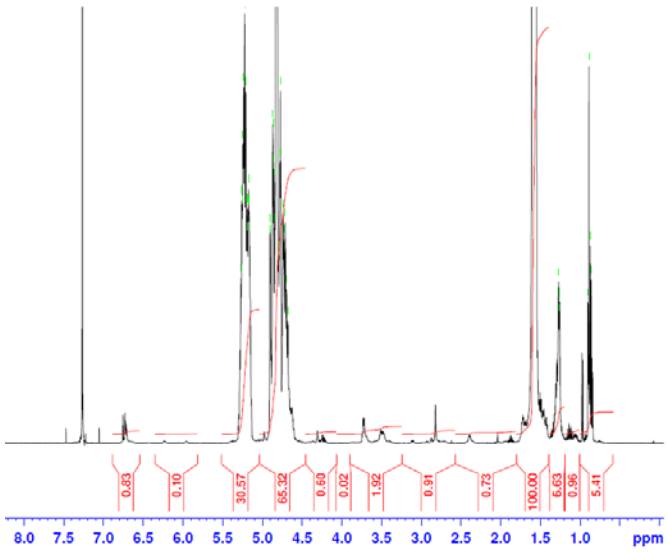
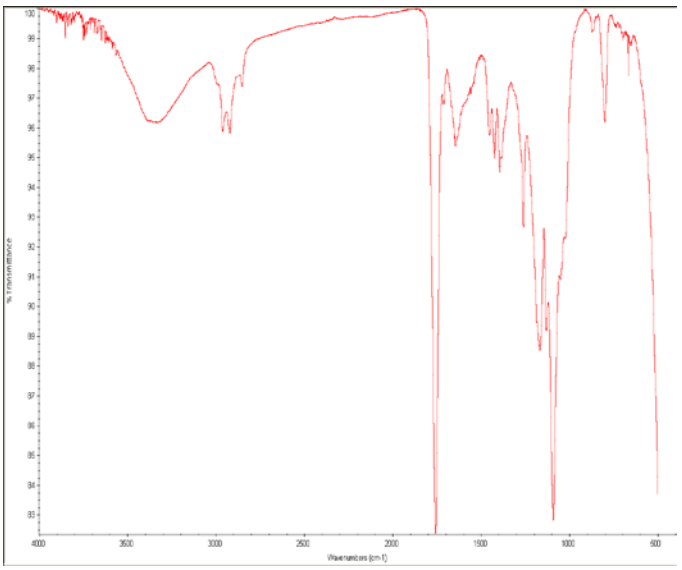
No. AI153 Certificate of Analysis

Product Name: Poly(lactide-co-glycolide) maleimide endcap (50:50 LA:GA, M_n: 25,000 – 35,000 Da) (Lot#: 70223JSG-E)

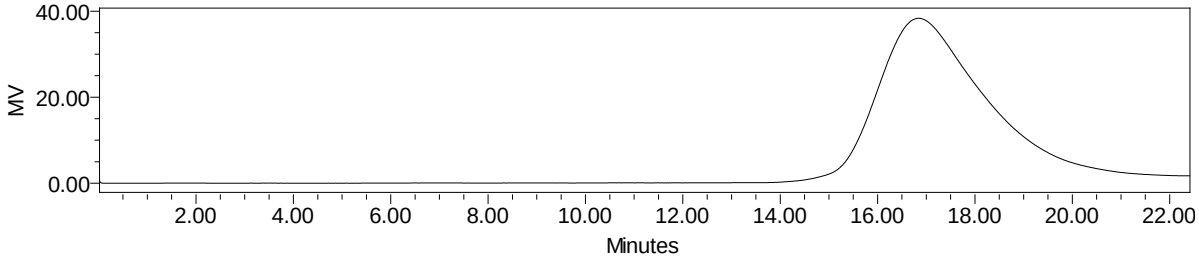


H-NMR Spectrum of PLGA-Mal copolymer in CDCl3 (Varian Inova 500 MHz instrument), NMR of PLGA copolymers: LA/GA = 48%/52% molar ratio (54%/46% w/w)



FTIR Analysis: Collected from cast-film on salt-plate placed in Protégé 460 Spectrometer (Nicolet) and analyzed in transmission E.S.P. mode.

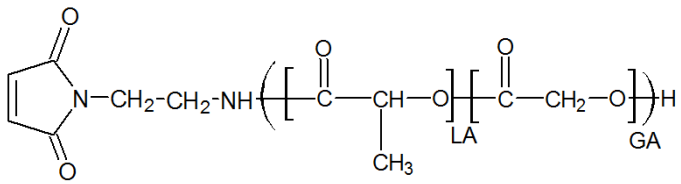
- **GPC analysis of PLGA copolymers**



Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns (7.8 x 300 mm, mixed porosity). Detection via refractive index, calibrated against polystyrene standards.

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLGA-Mal	28,696	49,058	1.71

- **Structure of PLGA-Maleimide copolymers**



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