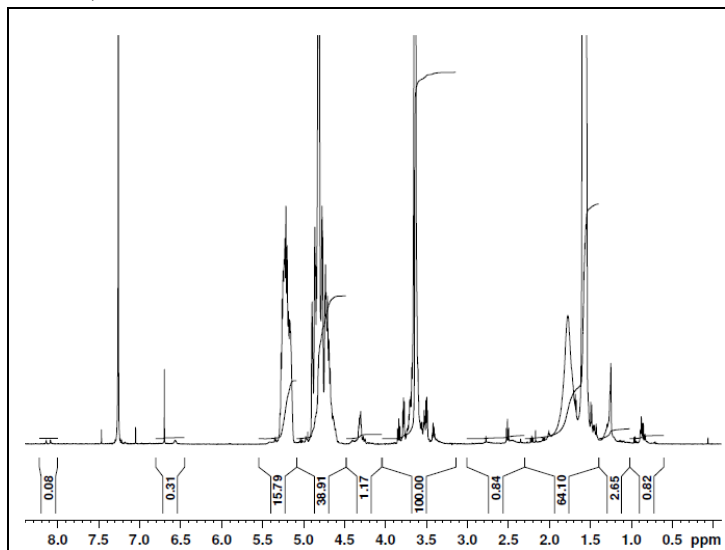


No. AI53

Certificate of Analysis

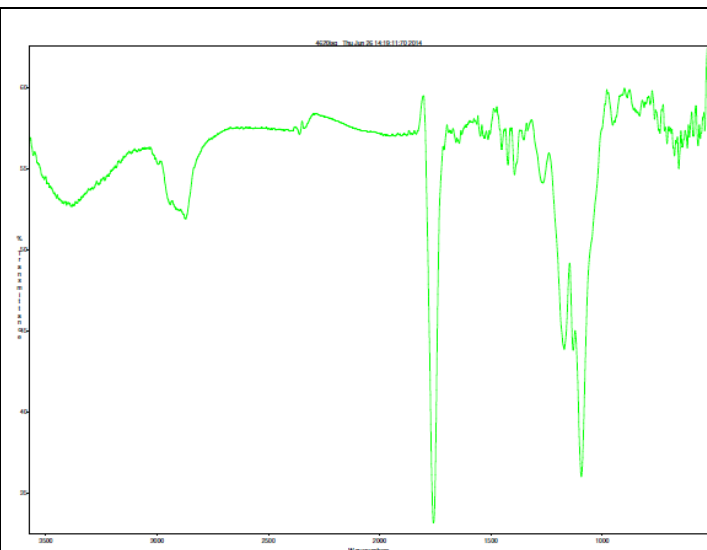
Product Name: Maleimide-Poly(ethylene glycol)-*b*-Poly(lactic-co-glycolic) diblock copolymers (50:50 LA:GA, $M_w \sim 5,000-10,000$ Da) (Lot#: 40620JSG)

H-NMR



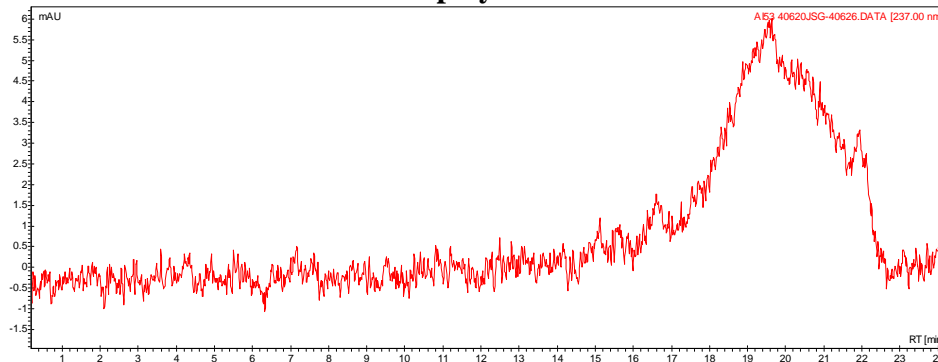
H-NMR Spectrum of Mal-PEG-PLGA diblock copolymers in $CDCl_3$ (Varian Inova 500 MHz instrument), NMR of Mal-PEG-PLGA repeat units: EG-LA/GA = 104*/-66/81 (M_n EG-LA/GA = 4582*/-4729/4697) (*-Data from MFG)

FTIR



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

• GPC analysis of Mal-PEG-PLGA diblock copolymers

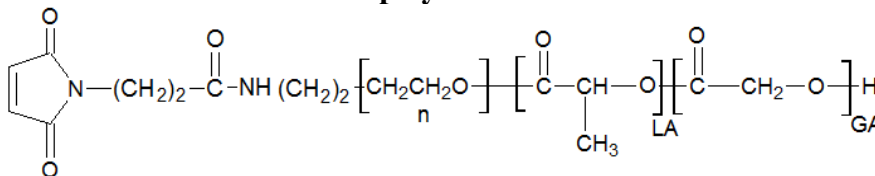


Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two Phenogel 5 μ m columns and one Resipore column (Agilent). Detection via UV/Vis, calibrated against polystyrene standards

Polymer	M_n (from GPC)	M_w (from GPC)	PDI
Mal-PEG-PLGA	9363	16845	1.80
Mal-PEG-OH precursor	Average M_n (GFC) – 4,600*		

*-data provided by manufacturer

• Structure of Mal-PEG-PLGA diblock copolymers



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