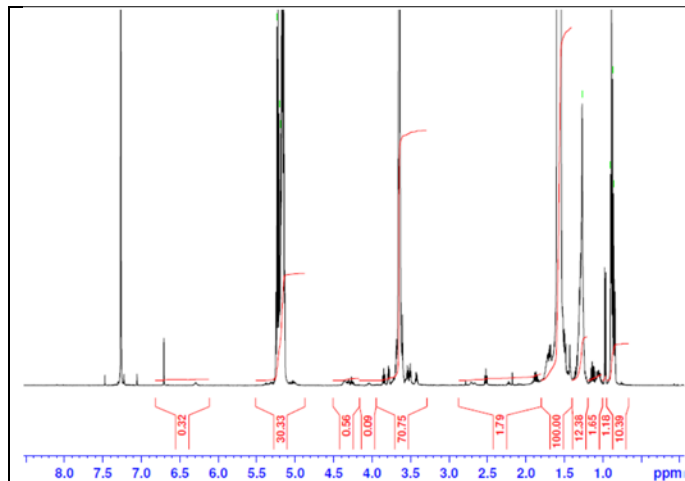# No. AI065 Certificate of Analysis
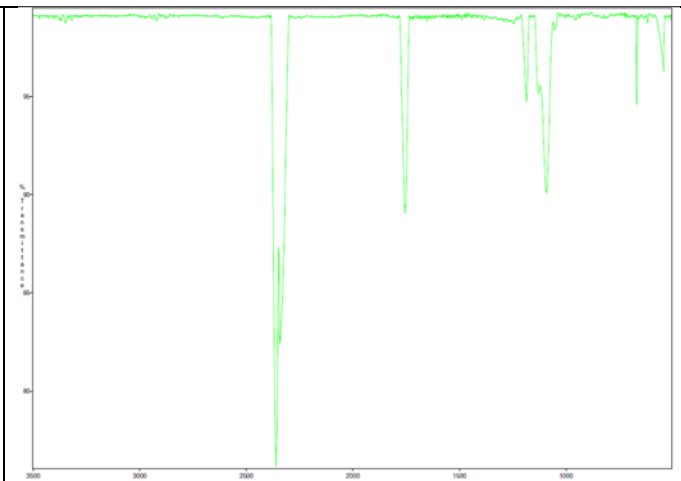
Product Name: Maleimide-Poly(ethylene glycol)-b-Poly(D,L-lactide)(MW 5,000:16,000 Da)
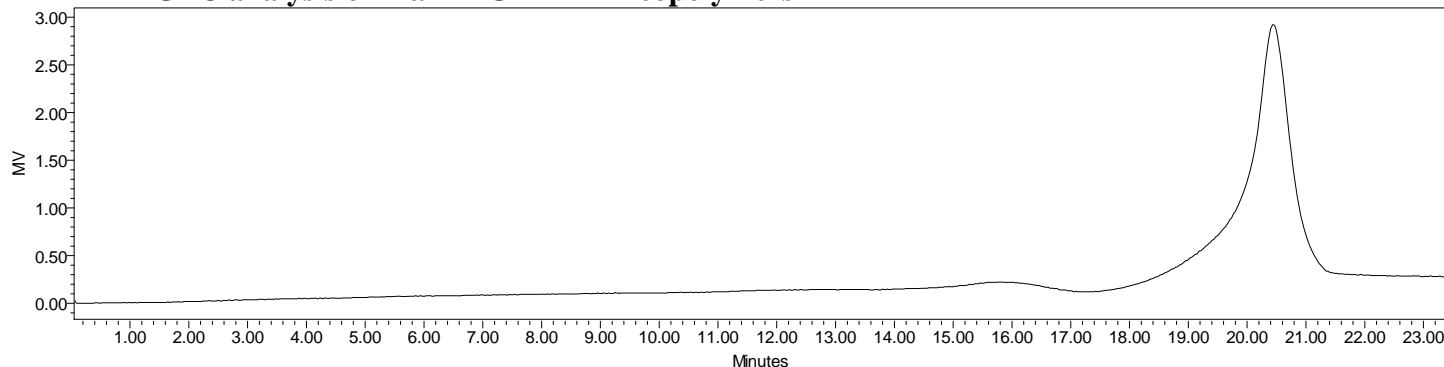(Lot#: 60111JSG-A-D) (*REPURIFIED*)

H-NMR

H-NMR Spectrum of Mal-PEG-PDLLA copolymers in CDCl3 (Varian Inova 500 MHz instrument), NMR of repeat units: EG-LA = 102*-175 (Mn EG-LA = 4494*-12,593 (*data provided by MFG)

FTIR

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

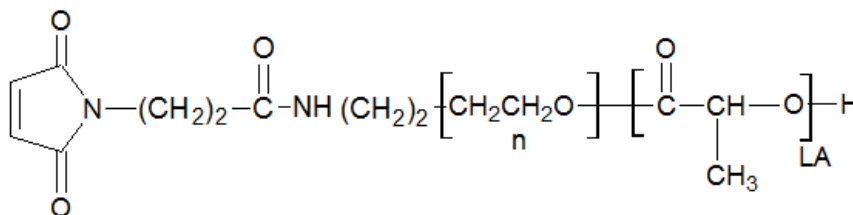- **GPC analysis of Mal-PEG-PDLLA copolymers**

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

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
Mal-PEG-PDLLA	25,462	28,051	1.10
PEG Precursor	4500*		

*-data provided by manufacturer

- **Structure of Mal-PEG-PDLLA copolymers**

Material provided for research use only. Not for human use.
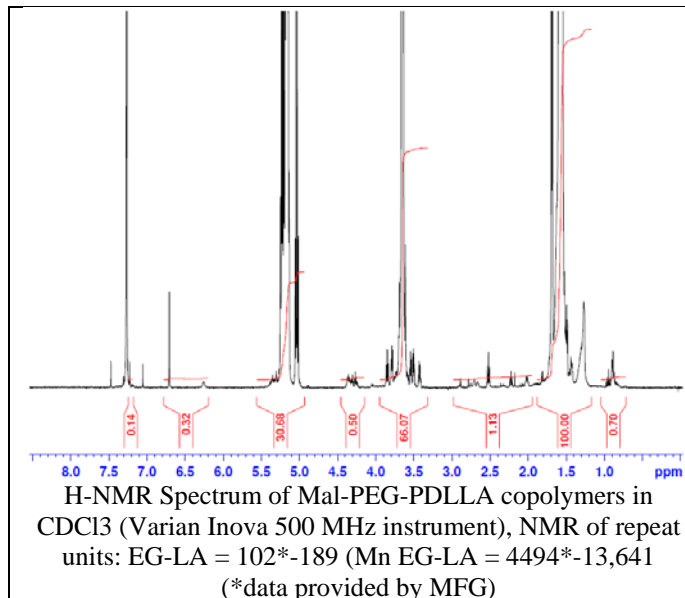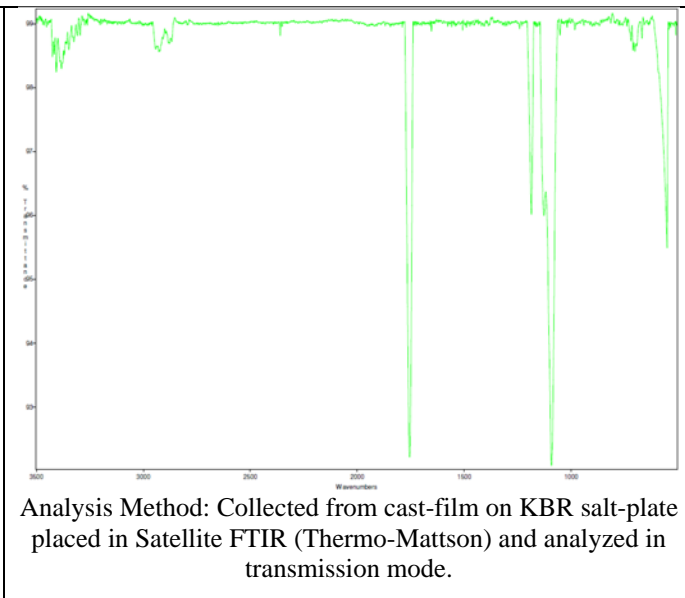
No. AI065   Certificate of Analysis

Product Name: Maleimide-Poly(ethylene glycol)-b-Poly(D,L-lactide)(MW 5,000:16,000 Da)
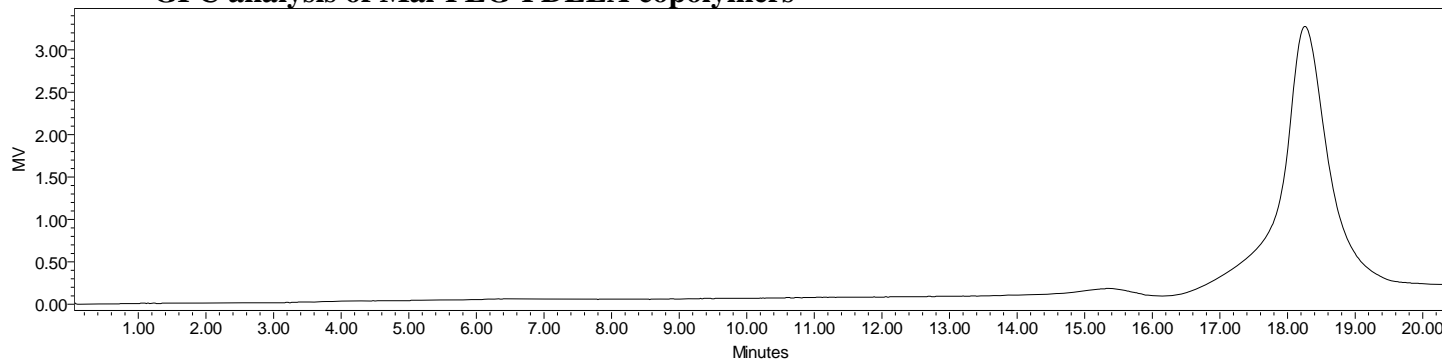
(Lot#: 60111JSG-A) (*ORIGINAL*)

H-NMR

H-NMR Spectrum of Mal-PEG-PDLLA copolymers in CDCl3 (Varian Inova 500 MHz instrument), NMR of repeat units: EG-LA = 102*-189 (Mn EG-LA = 4494*-13,641 (*data provided by MFG)

FTIR

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

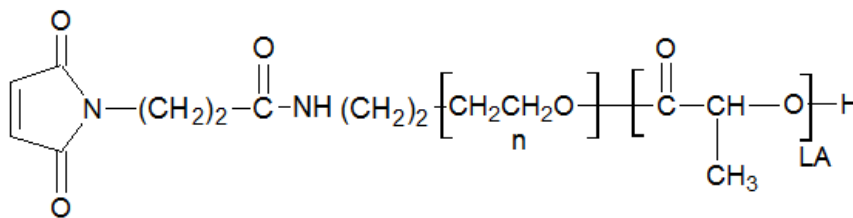- **GPC analysis of Mal-PEG-PDLLA copolymers**

Analysis Method: Varian Prostar system with 1 ml/min DCM flow across three Phenogel 5u columns (Agilent). Detection via UV/Vis, calibrated against polystyrene standards

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
Mal-PEG-PDLLA	25,634	32,586	1.27
PEG Precursor	4500*		

*-data provided by manufacturer

- **Structure of Mal-PEG-PDLLA copolymers**

Material provided for research use only. Not for human use.