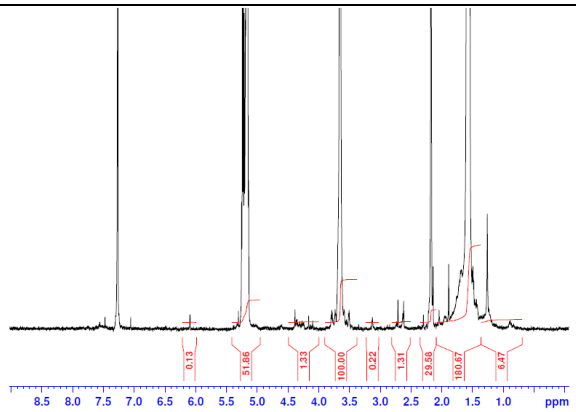
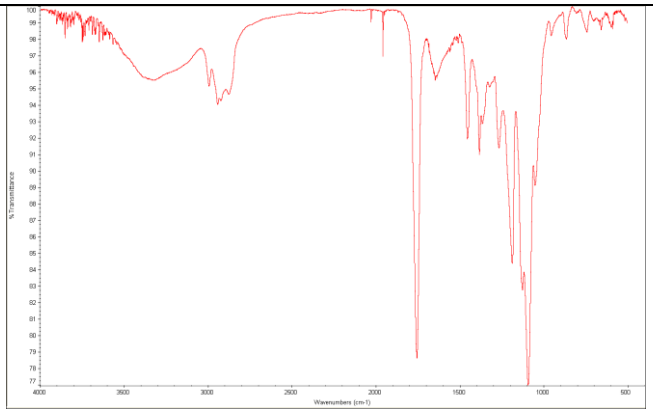
No. AI150 Certificate of Analysis

Product Name: Poly(DL-lactide)-b-poly(ethylene glycol)-methyltetrazine endcap (16,000-5000 Da) (Lot#: 61213JSG-A)

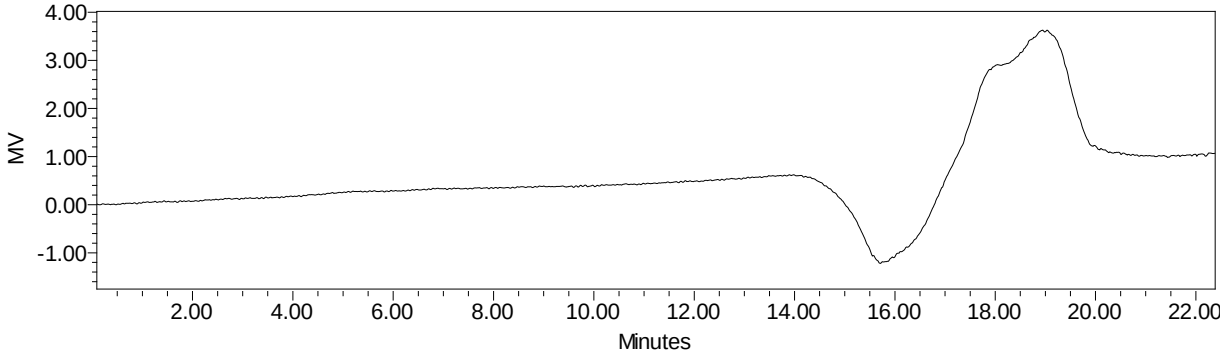


H-NMR Spectrum of PLA-PEG-MTZ in CDCl3 (Varian Inova 500 MHz instrument), NMR EG:LA – 104*:232 (Mn 4582*-15533 PEG-PLA)



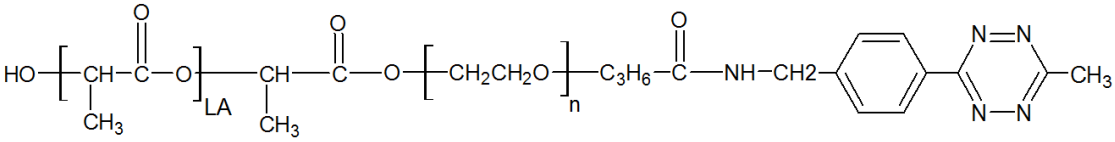
FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Protégé 460 Spectrometer E.S.P. (Nicolet) and analyzed in transmission E.S.P. mode.

- **GPC analysis of PLA-PEG-MTZ copolymers**



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

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PLA-PEG-MTZ	22,045	29,002	1.32
PEG precursor	Average Mw by GFC - 4600*		

* - data provided by MFG

- **Structure of PLA-PEG-MTZ copolymers**