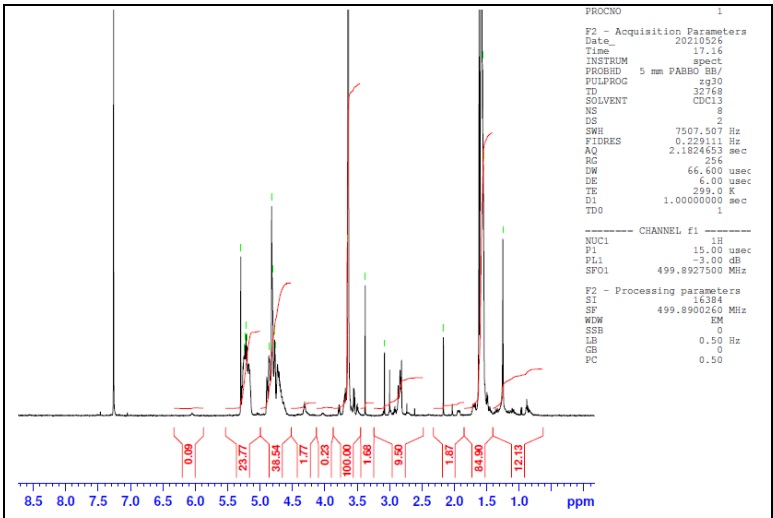
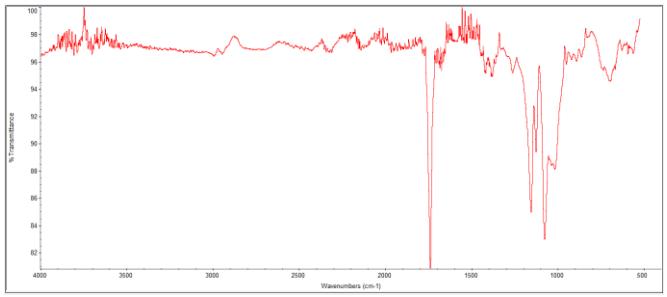
# No. AI210 Certificate of Analysis

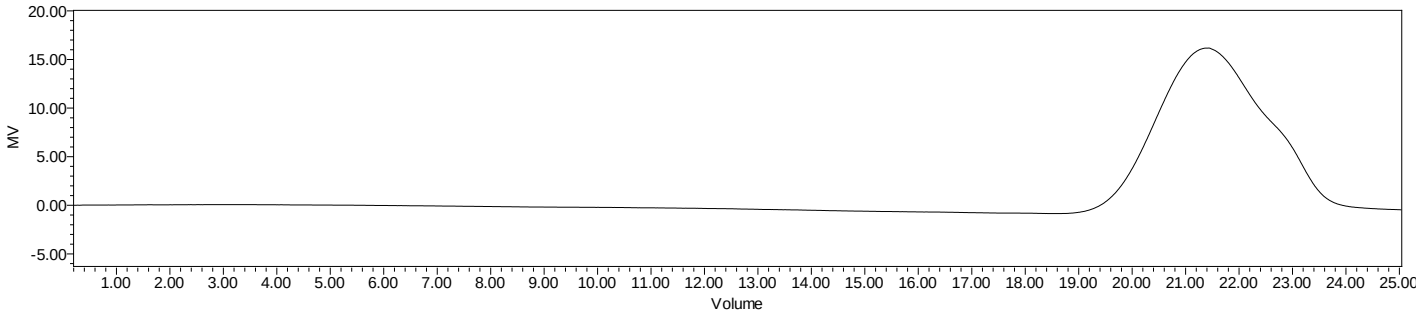
Product Name: Methyl Poly(ethylene glycol)-b-Poly(lactide-co-glycolide)-Methyltetrazine endcap (2,000-5,000 Da) (Lot #210518RAI-C)




H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG/LA-GA =44/42-34 (Mn EG/LA:GA 1938*/3012:1968 Da)




FTIR Analysis: Collected from Nicollet Avatar 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

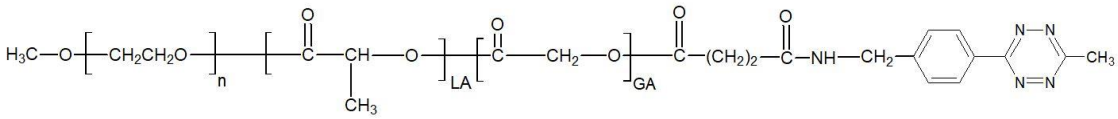



GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

| Polymer | $M_n$ (from GPC) | $M_w$ (from GPC) | PDI |
|---|---|---|---|
| mPEG-PLGA-MTZ | 7417 | 10,848 | 1.46 |
| PEG precursor* | 1951* | | |

*- from MFG data

- **Structure of mPEG-PLGA-MTZ copolymers:**

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