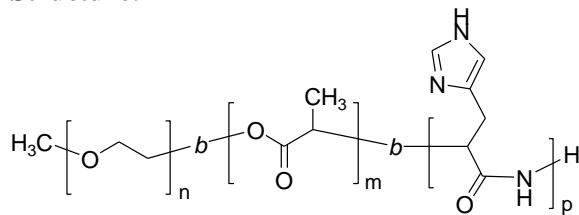


Sample Name: Amino terminated Poly (Ethylene glycol methlether-b-lactide-b-Histidine)

Sample#: P41137A-mPEG-LA-HisNH2

Structure:



Composition:

	Mn x 10 ³	PDI
PEG-b-LA	2.0-b-2.3	1.13
PEG-LA-NH2	2.0-b-2.0	1.13
PEG-LA-Histidine	2.0-b-1.2-b-0.3	1.13

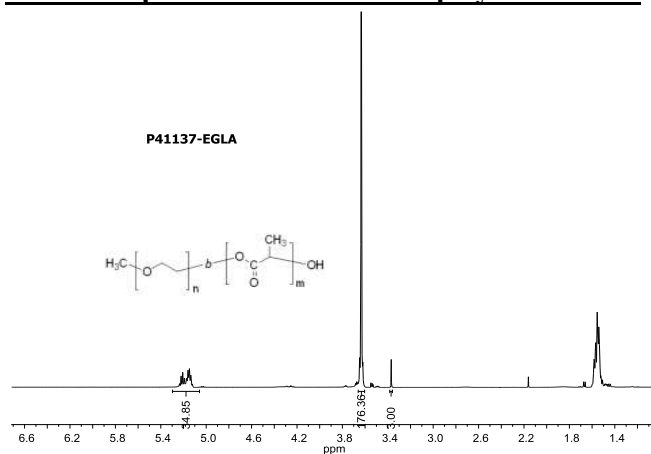
Synthesis Procedure:

The product was synthesized by modification of end group.

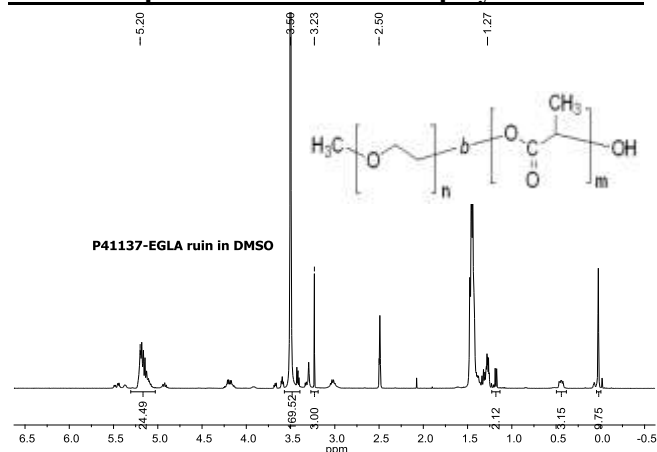
Characterization:

The product was characterized by size exclusion chromatography (SEC), and ¹H NMR.

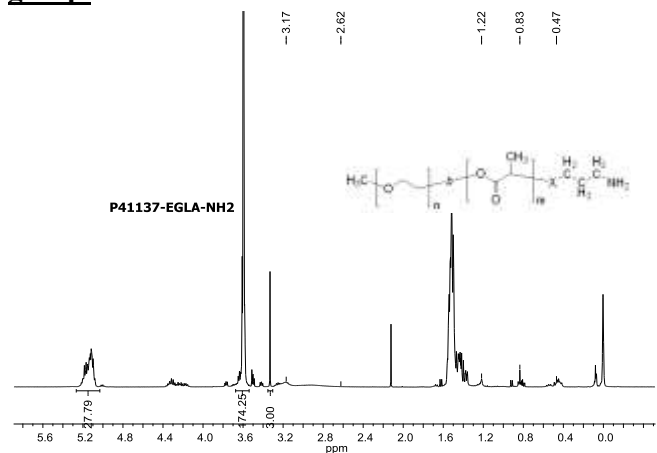
¹H-NMR Spectrum of the block copolymer: EGLA



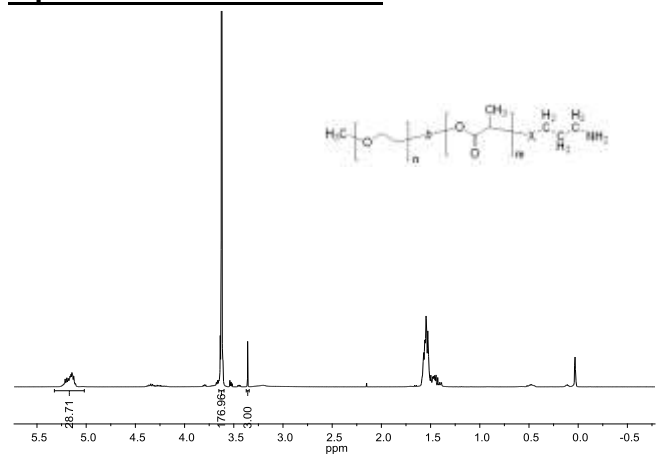
¹H-NMR Spectrum of the block copolymer: EGLA



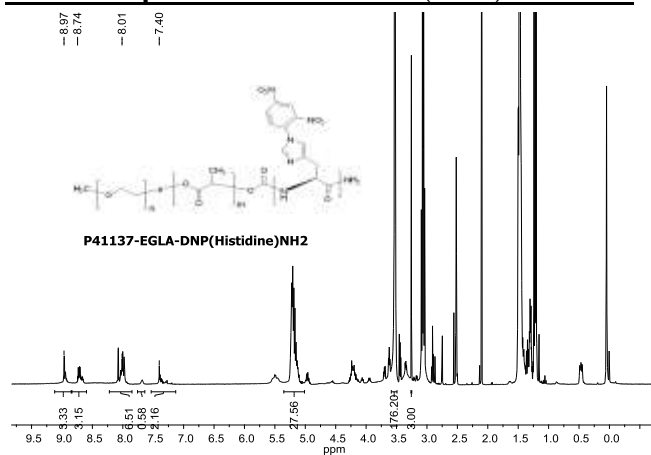
¹H-NMR Spectrum of the block copolymer: EGLA-NH2 (about 20% redistribution in ester linkages during transformation terminal OH to NH2 end group.



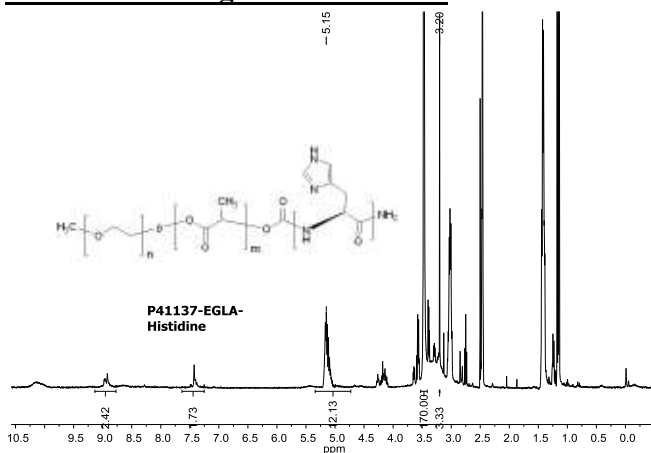
¹H-NMR Spectrum of the block copolymer after repurification of EGLA-NH2:



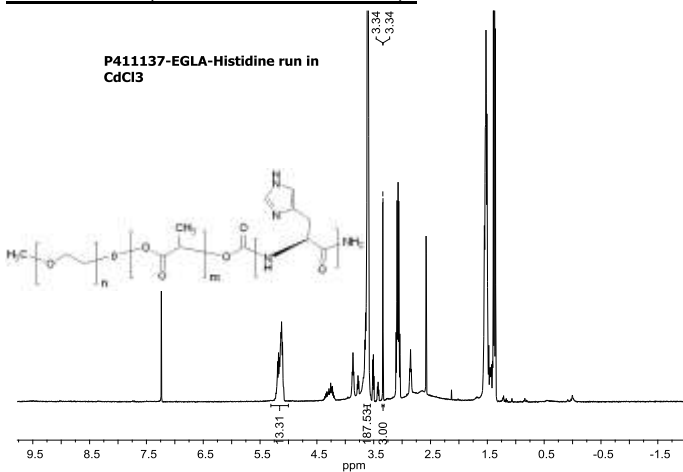
¹H-NMR Spectrum of the EGLA (DNP) Histidine:



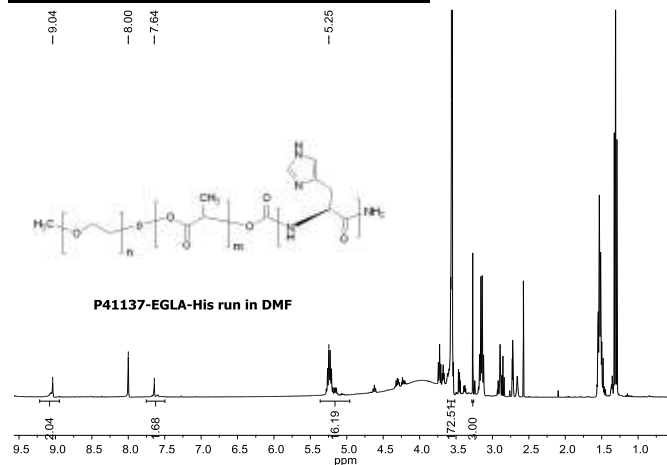
¹H-NMR Spectrum of the EGLA (DNP) Histidine after DNP cleavage runs in DMSO:



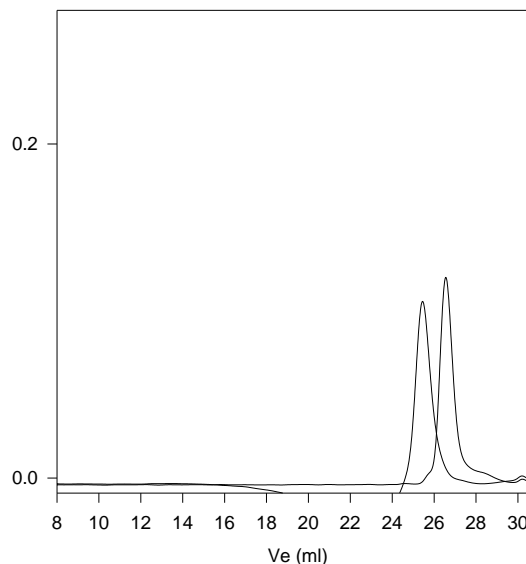
¹H-NMR Spectrum of the EGLA (DNP) Histidine after DNP cleavage runs in CdCl₃ (Histidine cannot be detected; insoluble in CdCl₃):



¹H-NMR Spectrum of the EGLA (DNP) Histidine after DNP cleavage runs in DMF:



SEC profile of the Polymer PEG-LAOH: **P41137- EOLA (DL form)**



Size exclusion chromatography:

— Poly(ethylene glycol), $M_n=2000$, $M_w=2100$, $PI=1.06$

— Block Copolymer PEO(2000)-b-PLA(2300), $PI=1.13$

Composition from ¹H NMR

Dp: EO(45 units)-b-LA (37 units)