

# Supplementary Materials: Biodegradable and Biocompatible P<sub>D</sub>LLA-PEG<sub>1k</sub>-P<sub>D</sub>LLA Diacrylate Macromers: Synthesis, Characterisation and Preparation of Soluble Hyperbranched Polymers and Crosslinked Hydrogels

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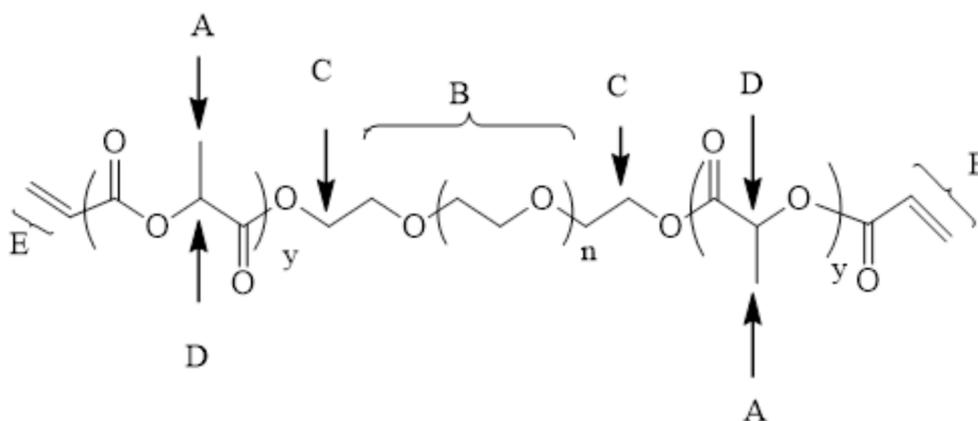


Figure S1. General molecular structure of diacryl-P<sub>D</sub>LLA-PEG<sub>1k</sub>-P<sub>D</sub>LLA.

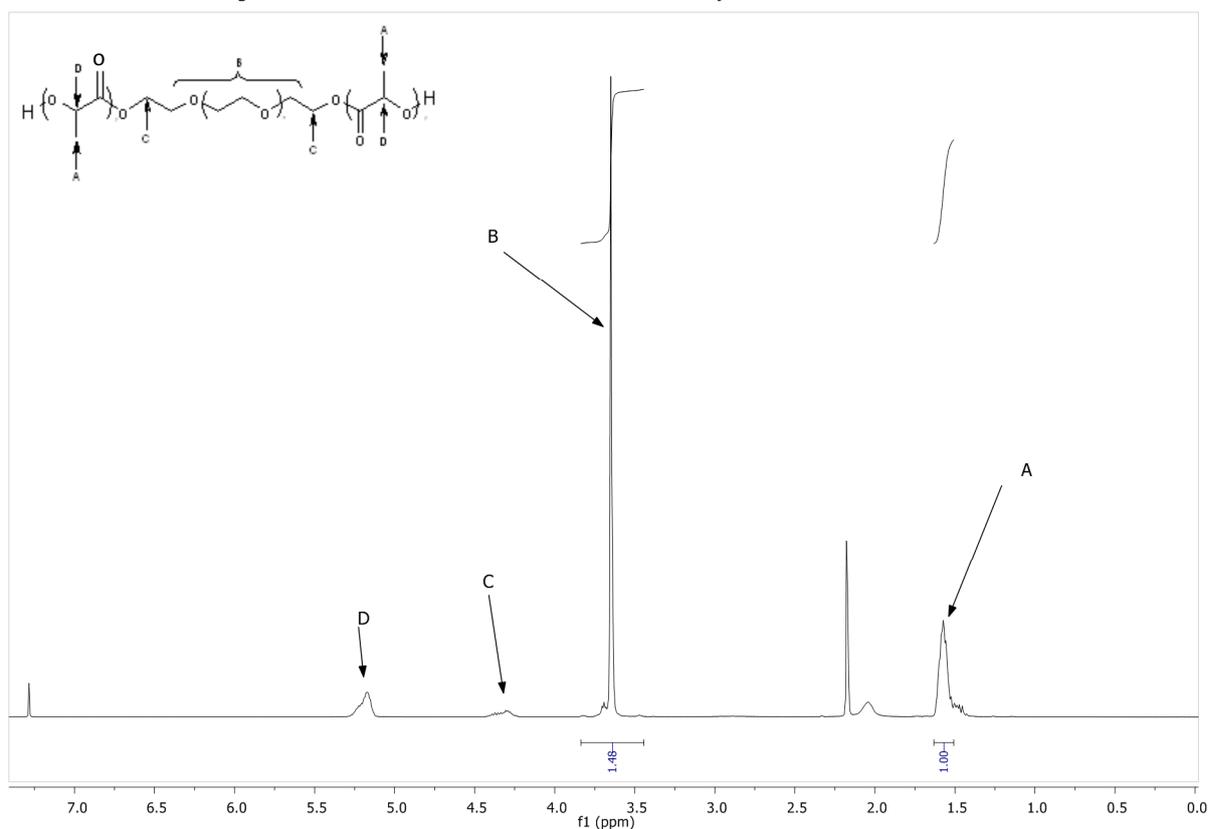
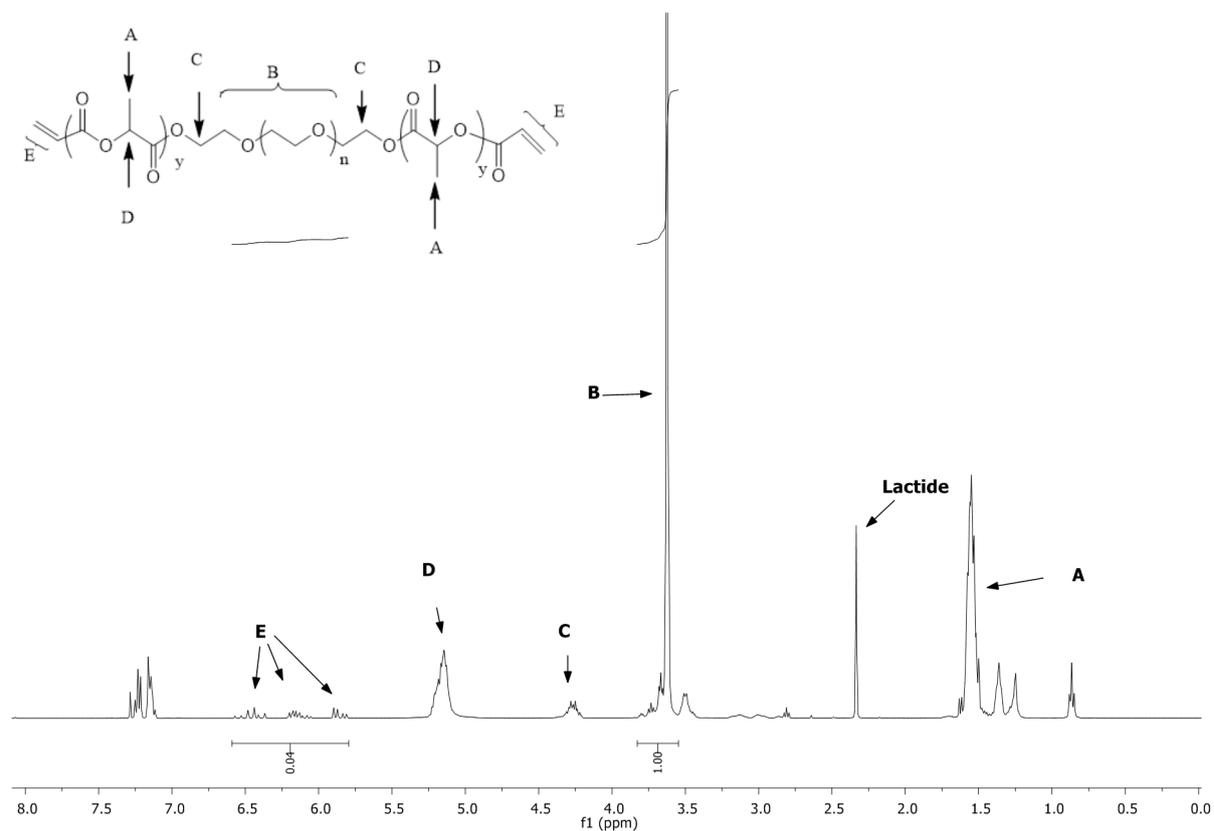
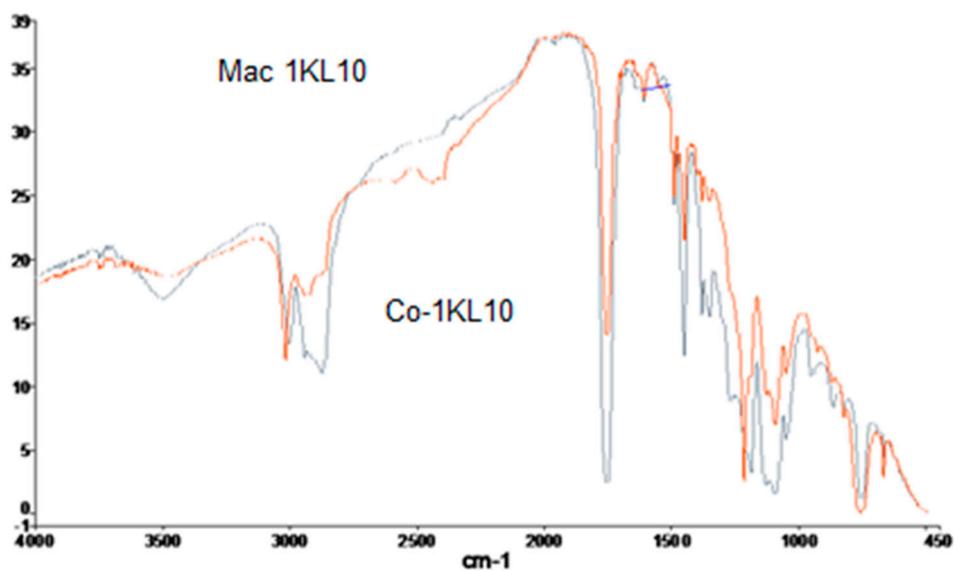


Figure S2. <sup>1</sup>H NMR of P<sub>D</sub>LLA-PEG<sub>1k</sub>-P<sub>D</sub>LLA Co-polymer 1KL10.



**Figure S3.** <sup>1</sup>H NMR and chemical structure of diacrylyl-PDLA-PEG<sub>1k</sub>-PDLA Macromer 1KL10 (Mac-1KL10).



**Figure S4.** FT-IR Spectra for Co-1KL10 (red) and Mac-1KL10 (blue).