

# Synthesis and Characterization of Amphiphilic Diblock Polyphosphoesters Containing Lactic Acid Units for Potential Drug Delivery Applications

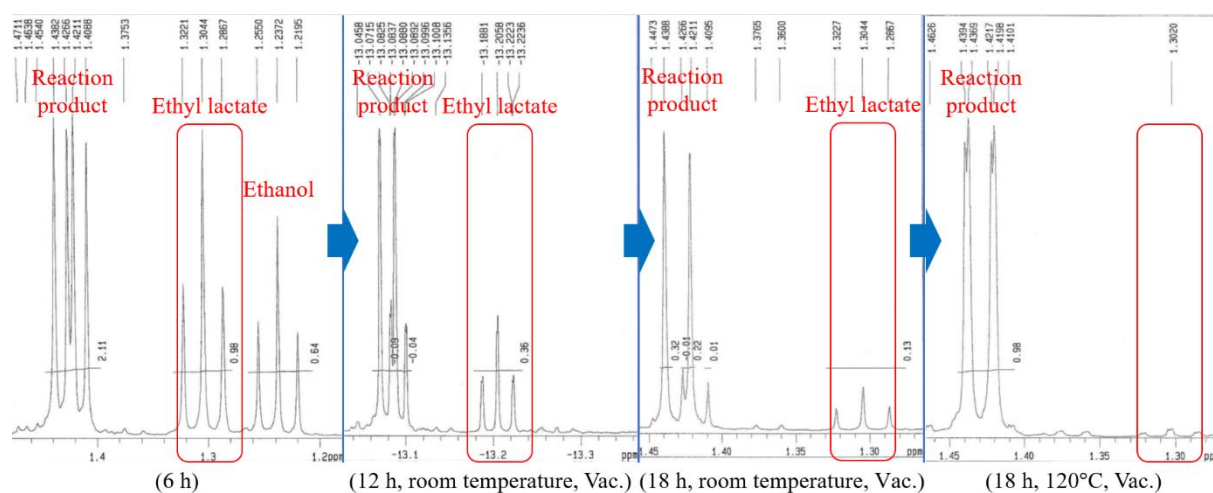
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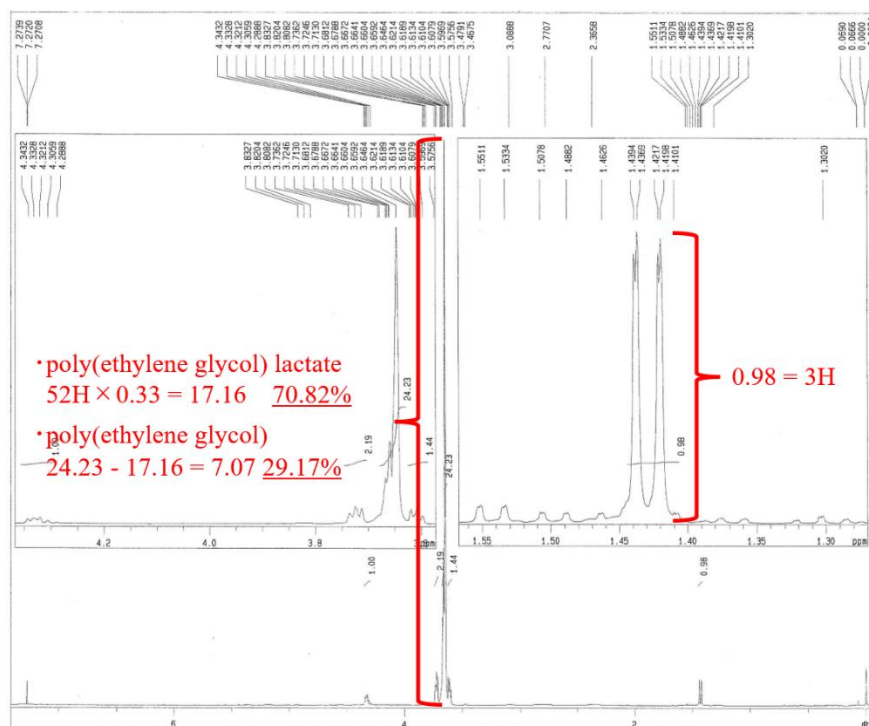
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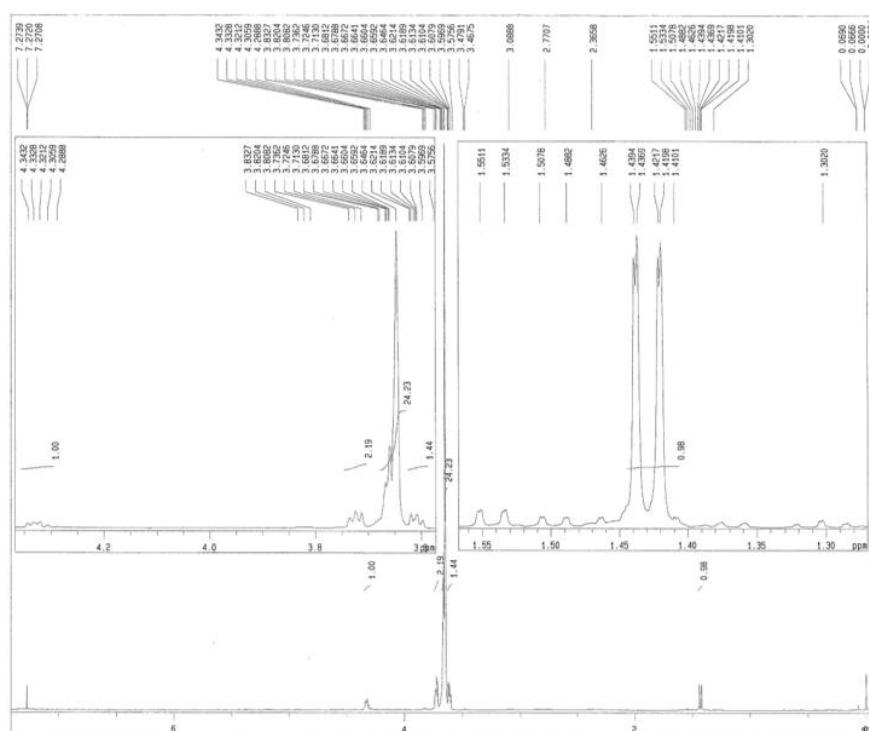
## Supplementary Data:



**Figure S1.** Reaction progress based on <sup>1</sup>H NMR spectroscopy.

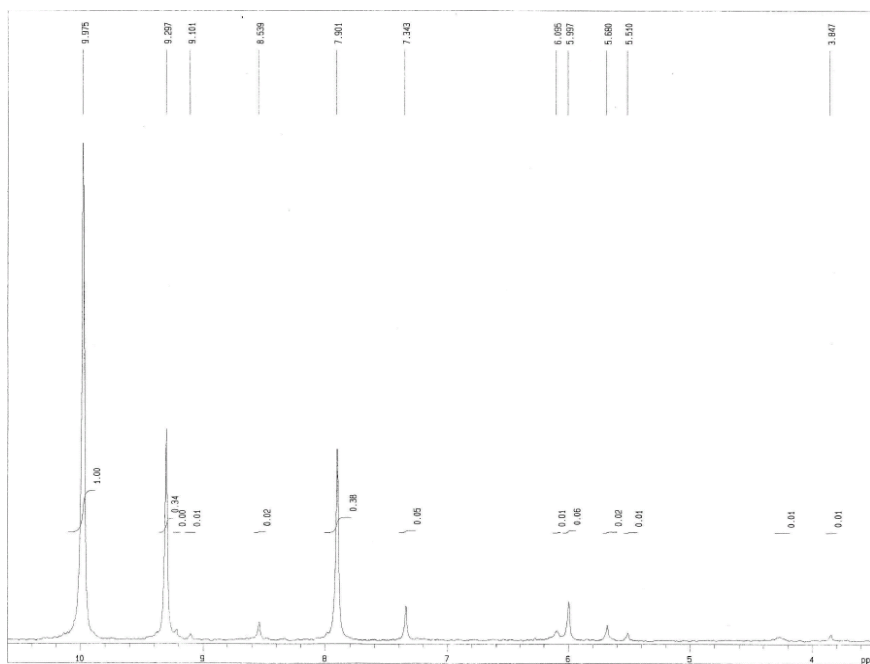


**Figure S2.** Calculation of the content of the products in the reaction mixture based on the integral intensity.

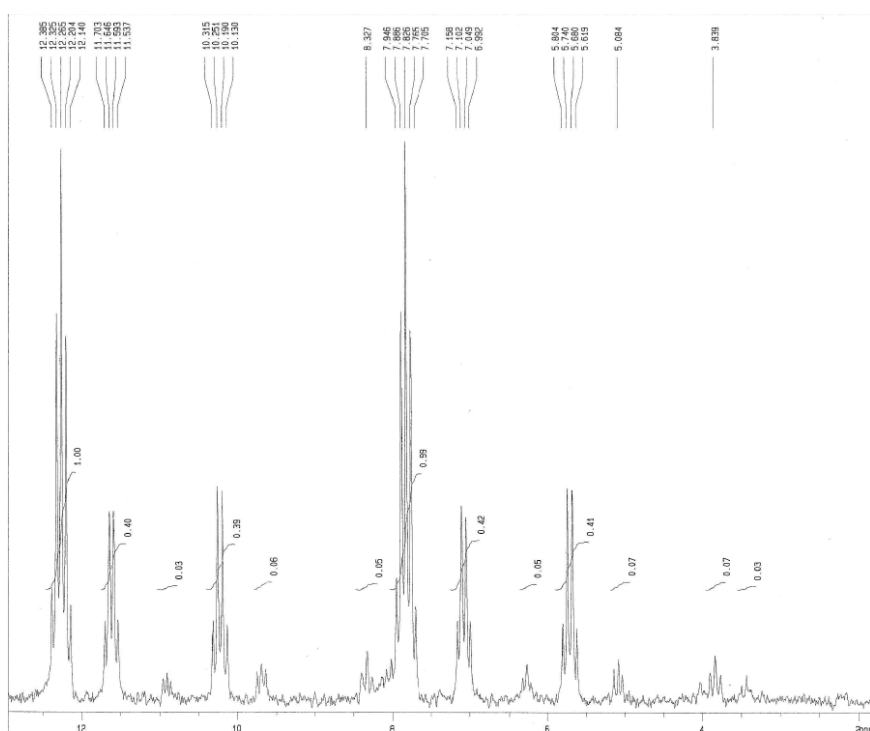


**Figure S3.**  $^1\text{H}$  NMR spectrum of the reaction product obtained from poly(ethylene glycol) 600 and ethyl lactate.

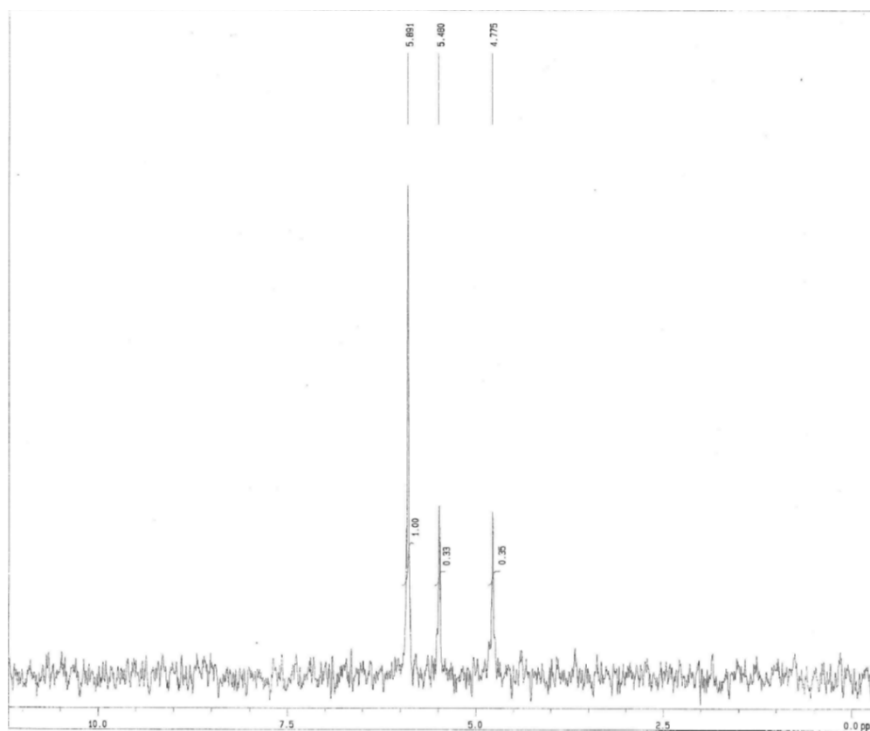




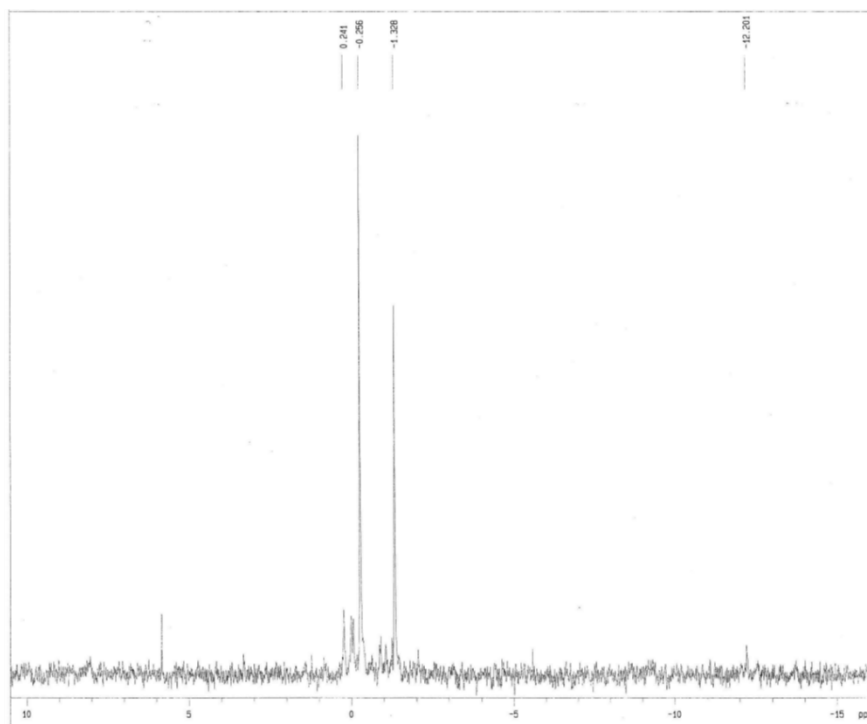
**Figure S6.**  $^{31}\text{P}\{\text{H}\}$  NMR spectrum of poly[poly(ethylene glycol H-phosphonate) *co* poly[poly(ethylene glycol)lactate H-phosphonate].



**Figure S7.**  $^{31}\text{P}$  NMR spectrum of poly[poly(ethylene glycol H-phosphonate) *co* poly[poly(ethylene glycol)lactate H-phosphonate].



**Figure S8.**  $^{31}\text{P}\{\text{H}\}$  NMR of poly[poly(ethylene glycol) chlorophosphate]*co* poly[poly(ethyleneglycol)lactate chlorophosphate].



**Figure S9.**  $^{31}\text{P}\{\text{H}\}$  NMR of poly[polyalkyl(ethylene glycol) phosphate]*co* poly[polyalkyl(ethyleneglycol)lactate phosphate].