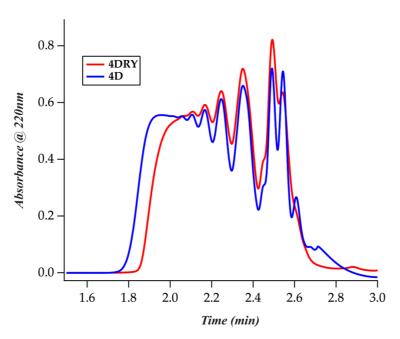
## Wet-dry Cycling Delays the Gelation of Hyperbranched Polyesters: Implications to the Origin of Life

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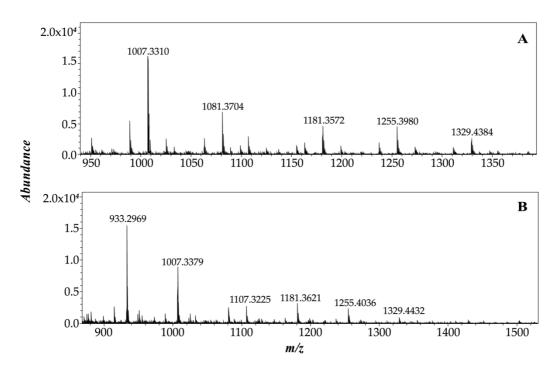
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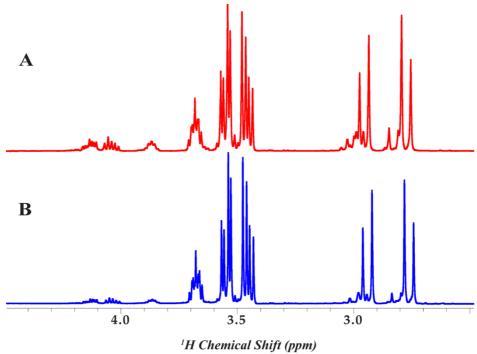
## **Supplementary Material**



**Figure S1.** SEC analysis of the citric acid glycerol polymerization products. Sample collected after 4 periods of continuous drying (4DRY) cycle is in red, sample collected after four cycling period (4D) is in blue.



**Figure S2.** ESI mass spectra of a) the water-soluble fraction of the continuously dried sample collected after 8 periods (8DRY) and (b) cycled sample collected at the end of the experiment (8W). All labeled species correspond to (M+23)<sup>+</sup> ions (sodium adducts).



**Figure S3.** <sup>1</sup>H NMR spectra of the glycerol-citric acid polymerization contols. (a) Unreacted sample (b) The sample after the wet incubation (8WET)