

Preparation of thermoresponsive polymer nanogels of oligo(ethylene glycol) diacrylate-methacrylic acid and their property characterization

Hongyan Cao, Fenghao Guo, Zhiyong Chen* and Xiang Zheng Kong*

College of Chemistry and Chemical Engineering, University of Jinan, Jinan 250022, China

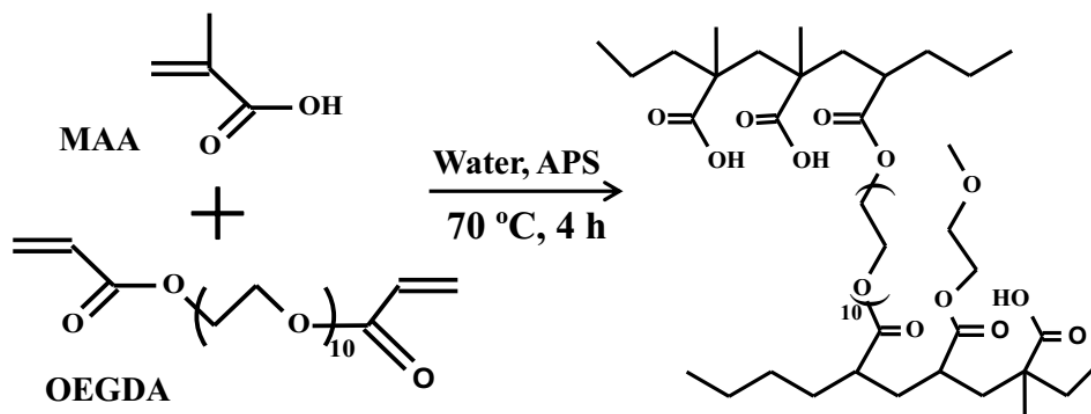


Figure S1. Illustration of the synthesis of thermoresponsive P(OEGDA-MAA)

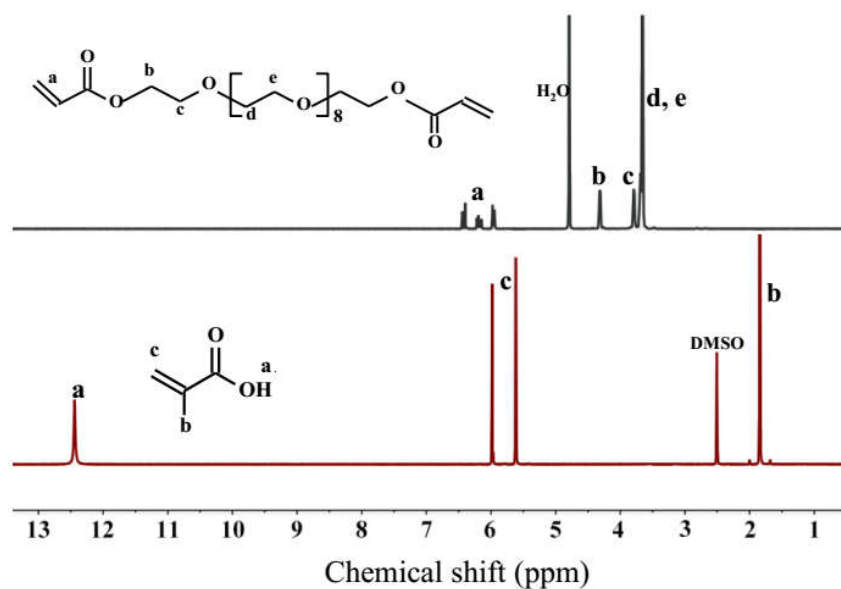


Figure S2. ¹H NMR spectra of the monomers, oligo(ethylene glycol) diacrylate and methacrylic acid, used in the synthesis of thermoresponsive P(OEGDA-MAA)

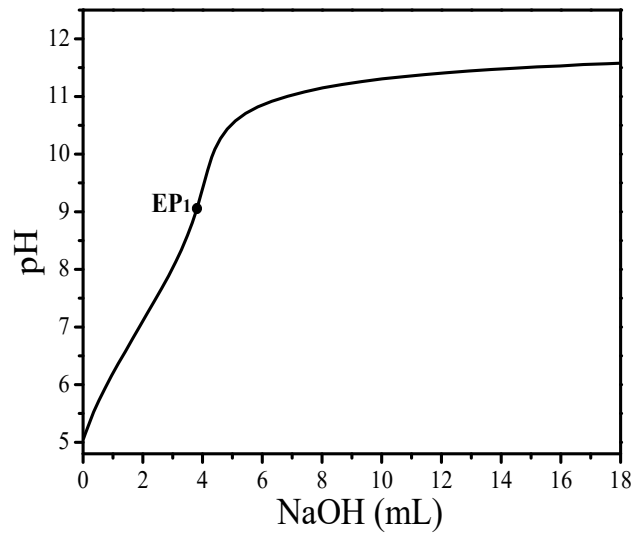


Figure S3. Potentiometric titration of thermoresponsive P(OEGDA-MAA)

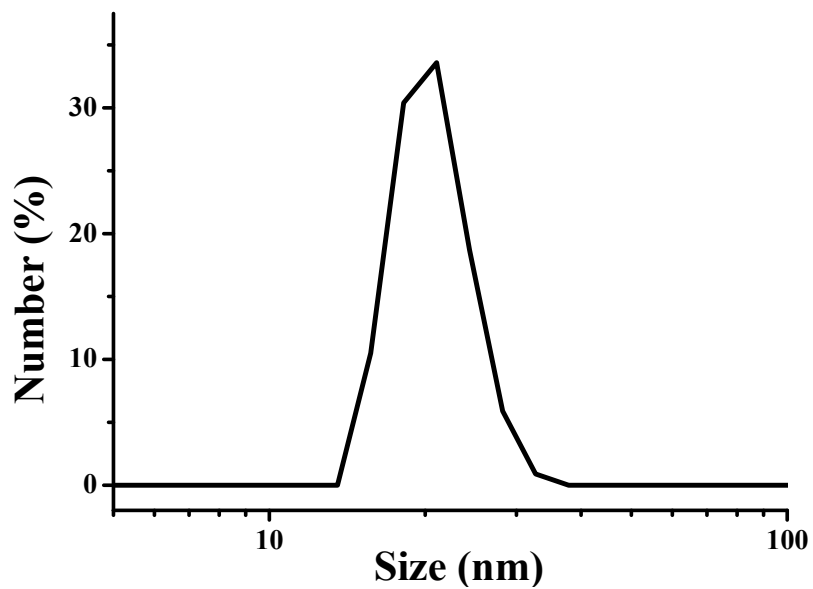


Figure S4. DLS diameter of P(OEGDA-MAA) hydrogel in water (1 mg/mL) at room temperature

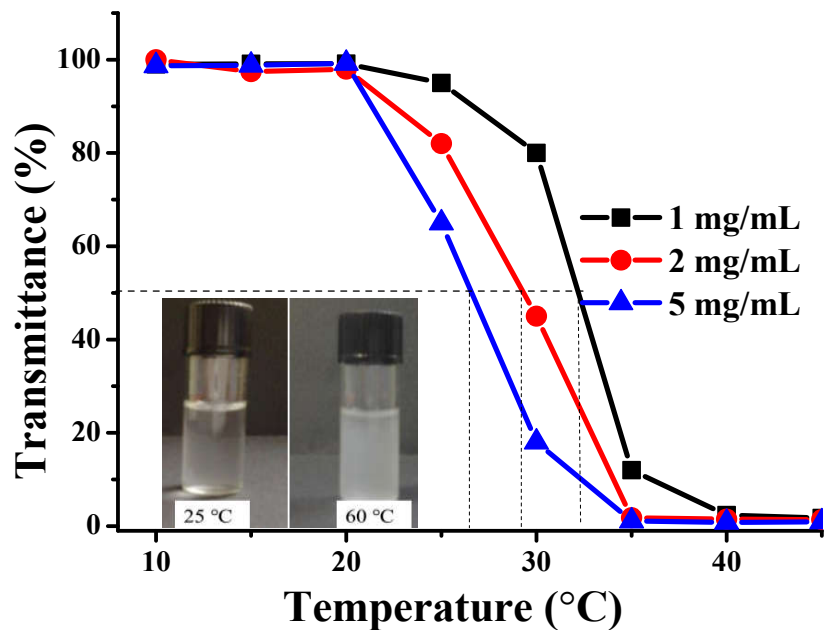


Figure S5. Dependence of light transmittance on increasing temperature for aqueous dispersion of P(OEGDA-MAA) of different concentration (pH 1.0, 150 mM NaCl). The insets are the photos of the hydrogel at concentration of 1.0 mg/mL, taken at 25 °C and 60 °C, respectively.