

Supporting Information

Water Recycling Efficacies of Extremely Hygroscopic, Antifouling Hydrogels

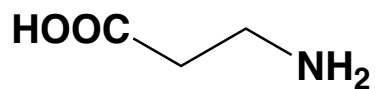
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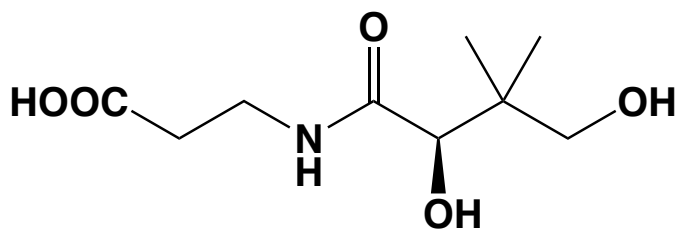
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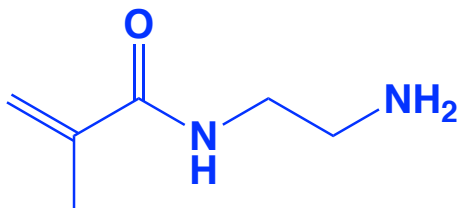
β -Alanine



Pantothenic Acid



AEMA



B5AMA

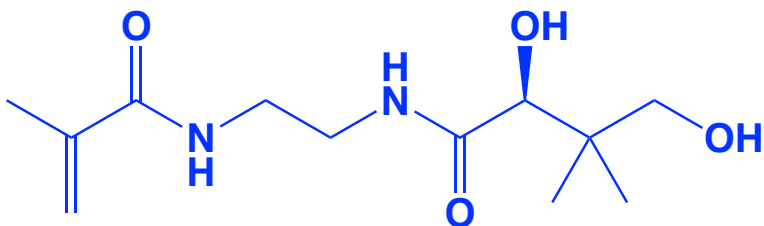


Figure S1: Chemical structures of β -alanine, pantothenic acid, 2-aminorthylmethacrylamide (AEMA) and vitamin B5 analogous monomer B5AMA.

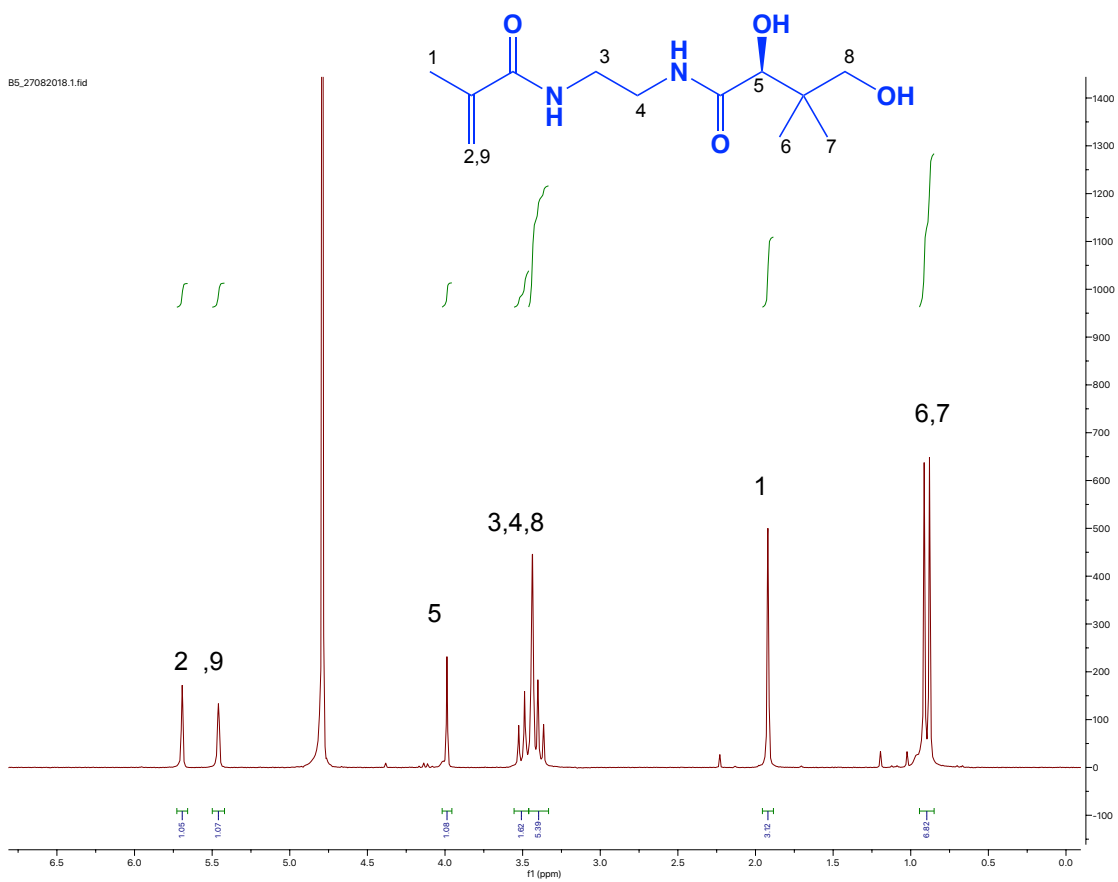


Figure S2: ^1H -NMR spectra of B5AMA in D_2O .

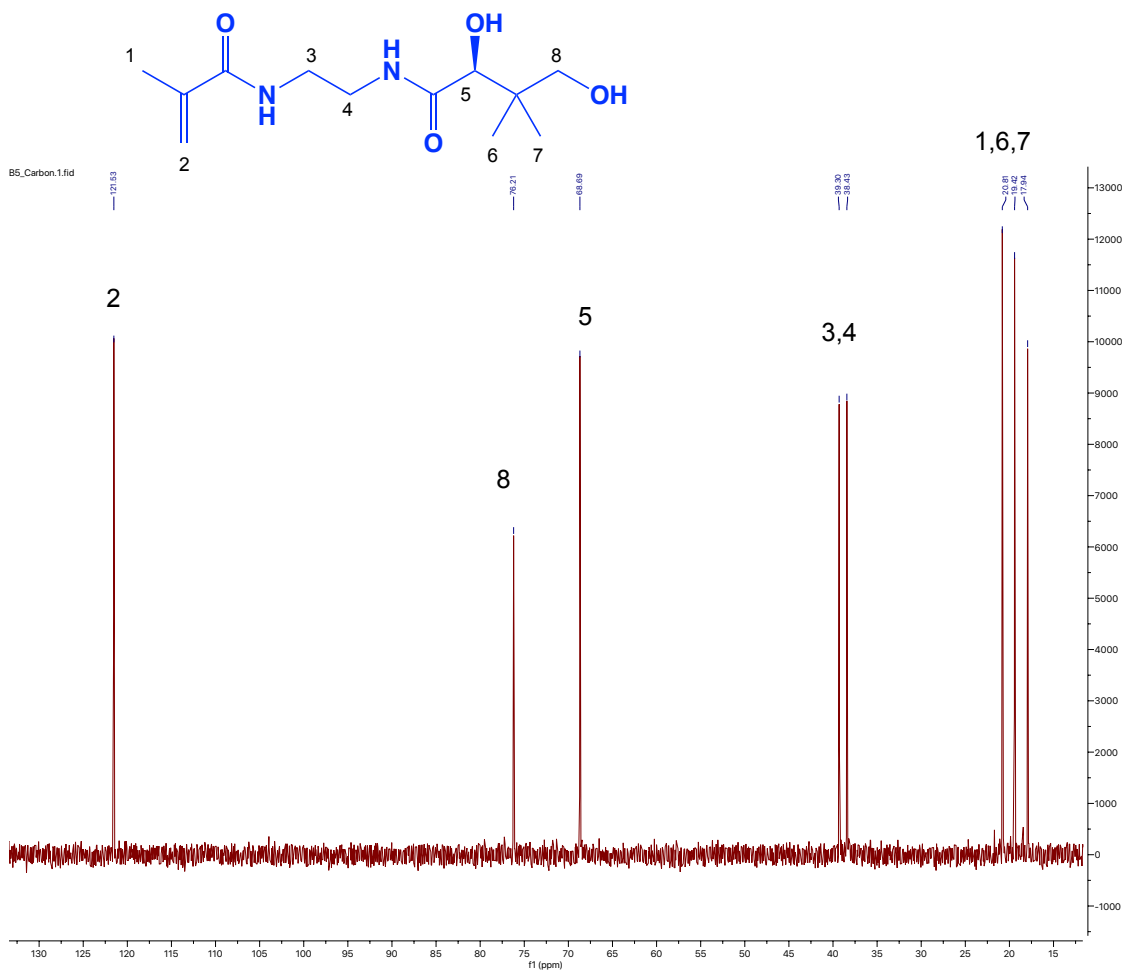


Figure S3: DEPT 45 ^{13}C -NMR spectra of B5AMA.

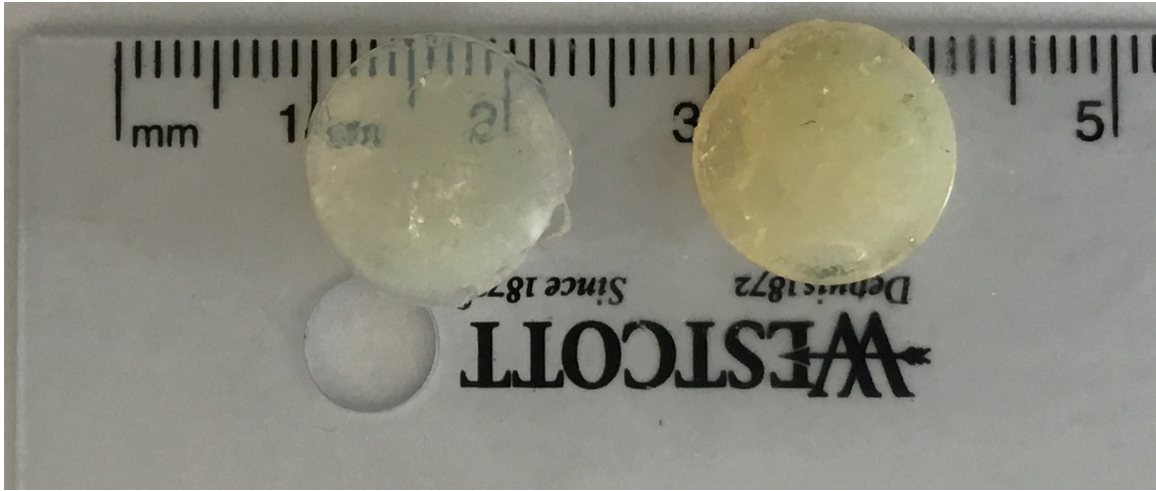


Figure S4: Photograph of B5AMA-10 hydrogels (left) before the release of water 25 °C, and (right) after the release of water at 37 °C.

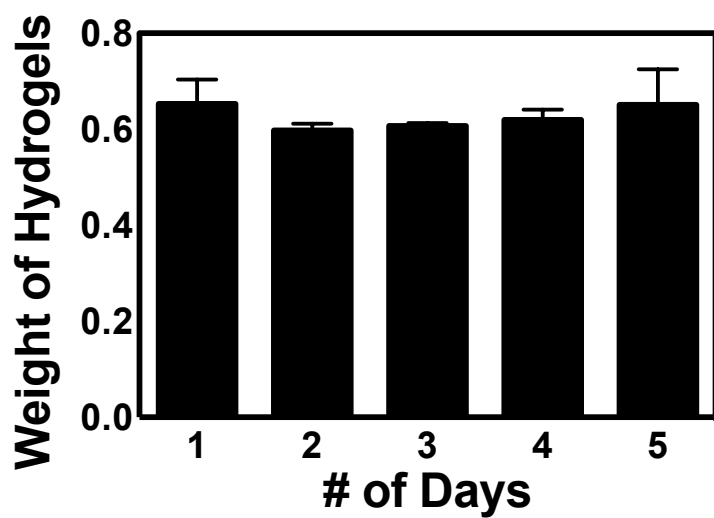


Figure S5: Weights of B5AMA-10 hydrogels recorded during the release of water during repeated cycles of water absorption and desorption for the period of five days.