

Using A Biocatalyzed Reaction Cycle for Transient and pH-Dependent Host–Guest Supramolecular Hydrogels

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Supporting Data:

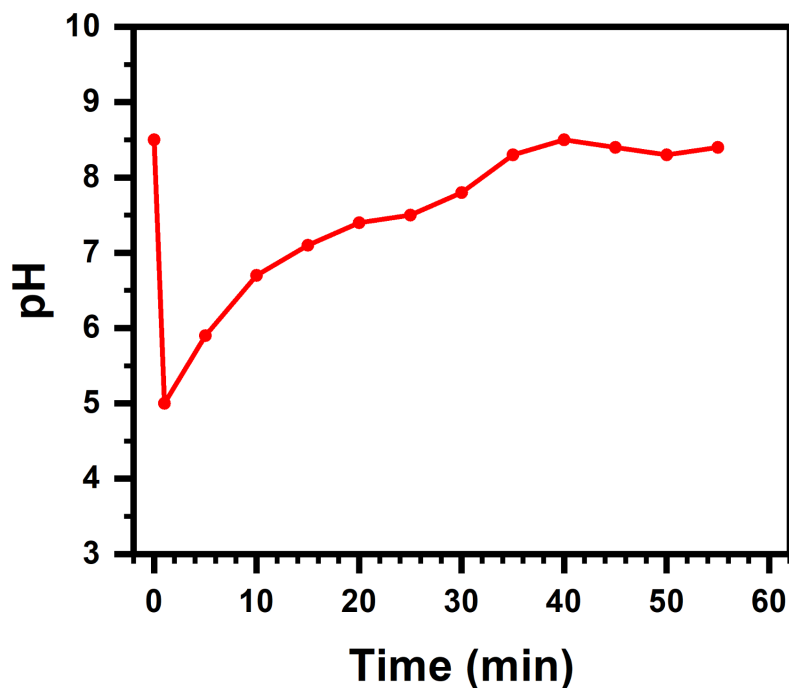


Figure S1. pH profile of a sample throughout the course of a single reaction cycle. Samples of PEG_{8a}-BO(-)- PEG_{4a}-CB[7] at 4% w/v and 1:1 by mol were prepared in DI water at pH 8.5 with 1.0 g/L urease. At t=0, urea (36 mM) and citric acid buffer (12 mM).

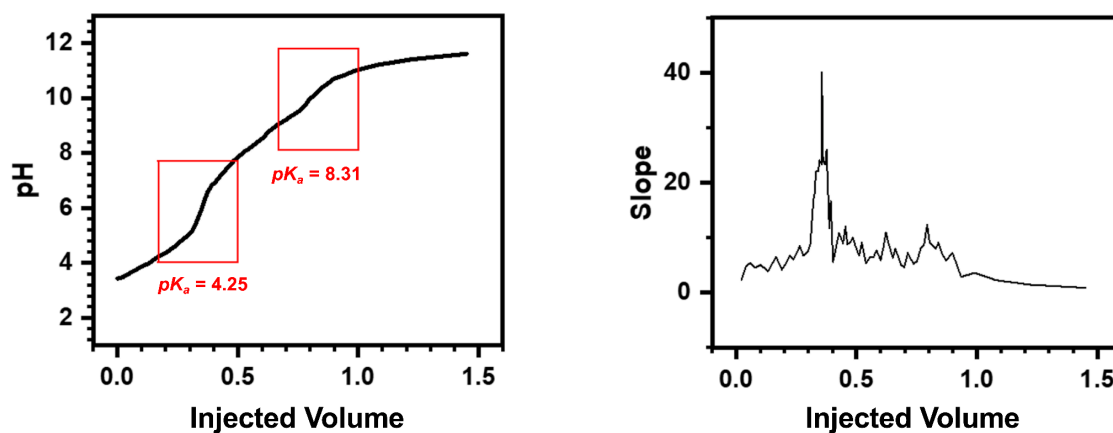


Figure S2. pH titration to estimate pK_a values for the BO guest alone.

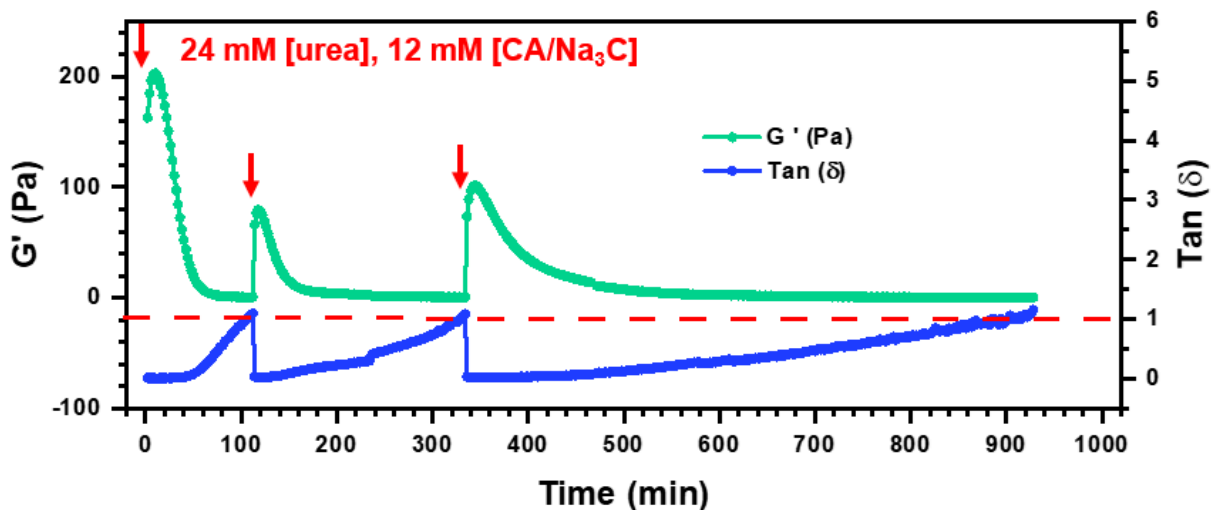


Figure S3. Rheology time-course study (G' and $\tan \delta$) for the cycling of 4% w/v PEG_{8a}-BO(-) and PEG_{4a}-CB[7] hydrogels containing [urease] = 1.0 g/L. At each time (*red arrows*), [urea] = 24 mM, and [CA] = 12 mM was added.

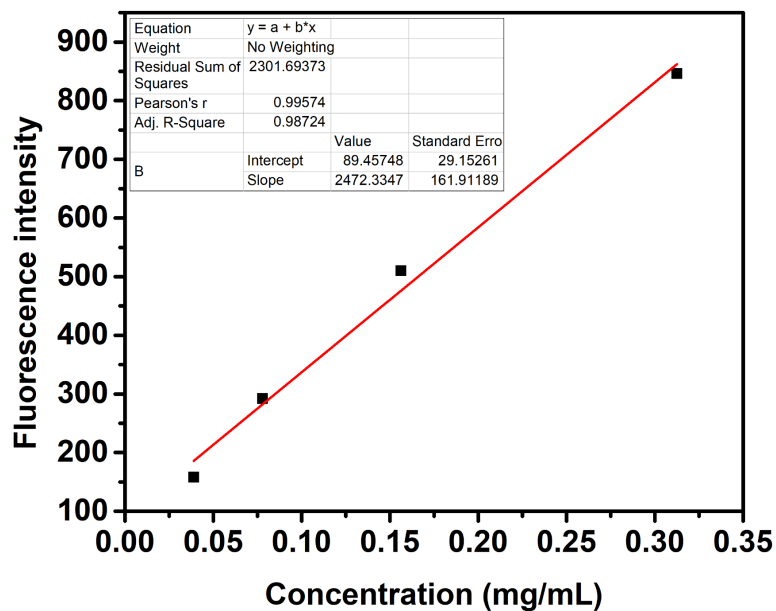


Figure S4. Standard curve of FITC-dextran.