Electronic Supplementary Material (ESI) for Catalysis Science & Technology.

Stability, Scalability, and Reusability of a Volume Efficient Biocatalytic System Constructed on Magnetic Nanoparticles

Gayan Premaratne,[a] Rajasekhara Nerimetla, [a] Ryan Matlock, [a] Loren Sunday, [a] Rangika S. Hikkaduwa Koralege,[b] Joshua D. Ramsey,[b] and Sadagopan Krishnan [a,*]

[a] *Department of Chemistry, Oklahoma State University, Stillwater, OK 74078, USA.*
E-mail. gopan.krishnan@okstate.edu

[b] *School of Chemical Engineering, Oklahoma State University, Stillwater, OK 74078, USA.*

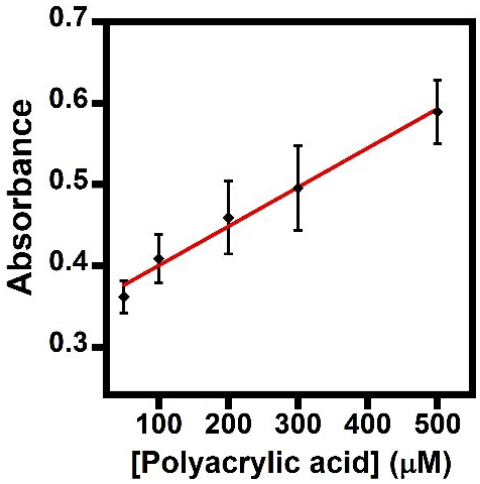

Fig. S1 Calibration plot of standard poly(acrylic acid) solution estimated by the TBO colorimetric assay.

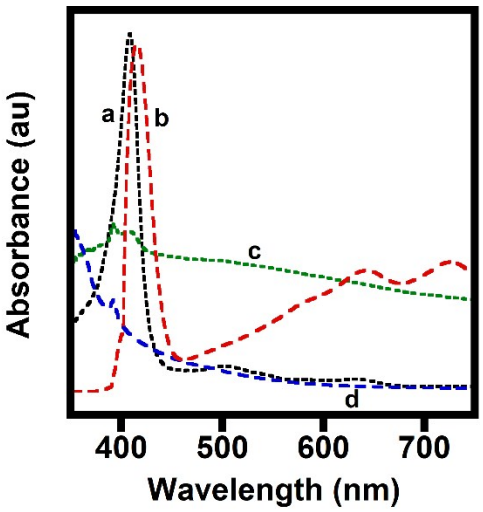

Fig. S2 UV-Vis spectra of (a) free Mb solution (λ_{max} = 409 nm) and (b) ABTS oxidation product (λ_{max} = 415 nm) catalyzed by Mb-MNPs$_{1mg}$. The spectra of (c) Mb-MNPs$_{1mg}$ conjugate and (d) free MNPs$_{1mg}$ in PBS solutions show no interference with the ABTS product peak identification.