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Supplemental Information for

Effects of Molecular Confinement and Crowding on Horseradish Peroxidase

Kinetics Using a Nanofluidic Gradient Mixer

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Figure S1. Nanochannel depth profile in a typical device. Channel dimensions: depth: 93 ± 12 nm and width 40 μ m.



Figure S2. Calibration working curve of fluorescence intensity as a function of resorufin concentration ($I_F = 0.284$ [resorufin], $R^2 = 0.998$). Error bars are ± 1 standard deviation.



Figure S3. (*Top*) Typical kinetic plot of resorufin concentration *vs*. time. Every 5th data point shown for clairity. (*Bottom*) Initial portion of the product production profiles from the top fitted to calculate initial reaction rate.