Supporting Information

Quantitative Chemical Imaging of Non-Planar Microfluidics

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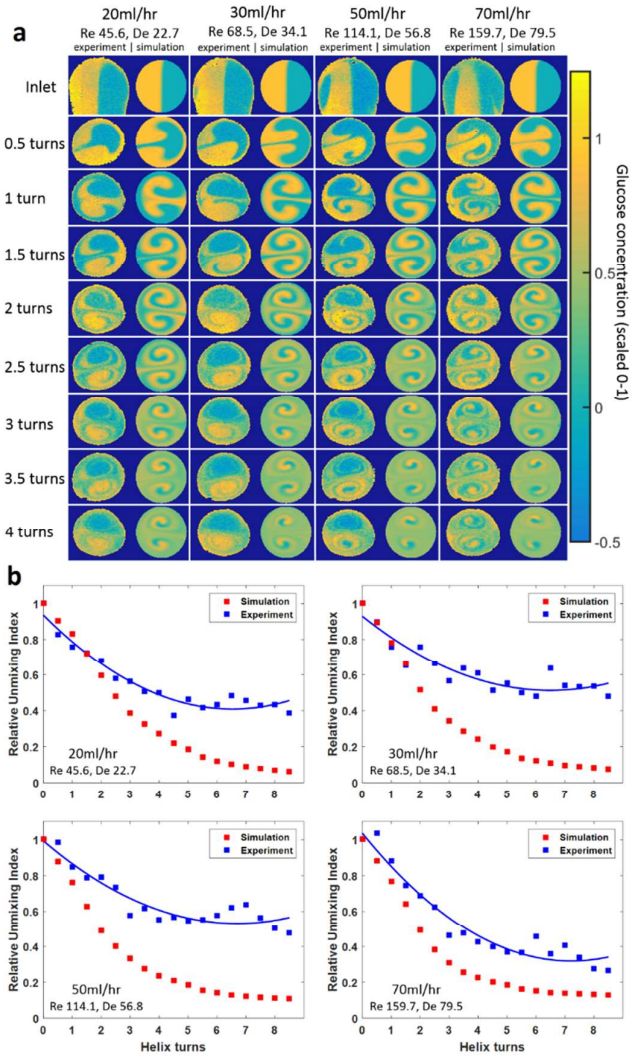

Figure S1. Theoretical and experimental comparisons of spatial concentration patterns and quantification of mixing along the channel at high flow rates. (a) Experimental (SRS) and simulation (COMSOL) visualizations of glucose concentration at cross sections in the helical mixer for four different flow rates (Reynolds and Dean numbers also shown). (b) Relative unmixing index as calculated from these cross-section images for experiment and simulation. Trendlines to the experiment are derived using the best fit for second order polynomials.

Video 1 shows printing of a sacrificial mold.
Video 2 shows a z-stack through the helical mixer.