Electronic Supporting Information:

Monolith and coating enzymatic microreactors of L-Asparaginase: kinetics study by MCE-LIF for potential application in ALL treatment

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Experiment:
The whole blood samples added with D,L-Asn was used to evaluate the performance of the enzyme reactors. Whole blood samples without treatment were obtained from Medical Experiment and Analysis Center, PLA General Hospital (Beijing, China). The whole blood samples 200 μL, added with 200 μL D,L-Asn (430 μM), was filtered through a membrane filter with 0.45 mm pores to avoid the mixture choking the capillary enzymatic reactors. And then the mixture pumped through the caillary enzymatic reactor at a flow rate of 100 μL/h. The flowing out solution was put into boiling water for 15 min and was centrifuged for 10 min (10, 000 rpm) to eliminate the proteins. Then the superstratum solution was derivatized with FITC and diluted for future analysis. The blank whole blood sample was treated as the same procedure except adding with 200 μL water instead of 200 μL D,L-Asn. The results were shown in Fig. S1.
**Fig. S1.** Electropherograms of hydrolyzation of whole blood samples with D,L-Asn and blank whole blood sample using coating enzymatic reactor.

(A) whole blood sample added with D,L-Asn;
(B) 20 fold diluted of blank whole blood sample;
(C) 20 fold diluted of (A).