

Supplementary Information

Advancements in microfluidic cassette-based iMiDEV™ technology for production of L-[¹¹C]Methionine and [¹¹C]Choline

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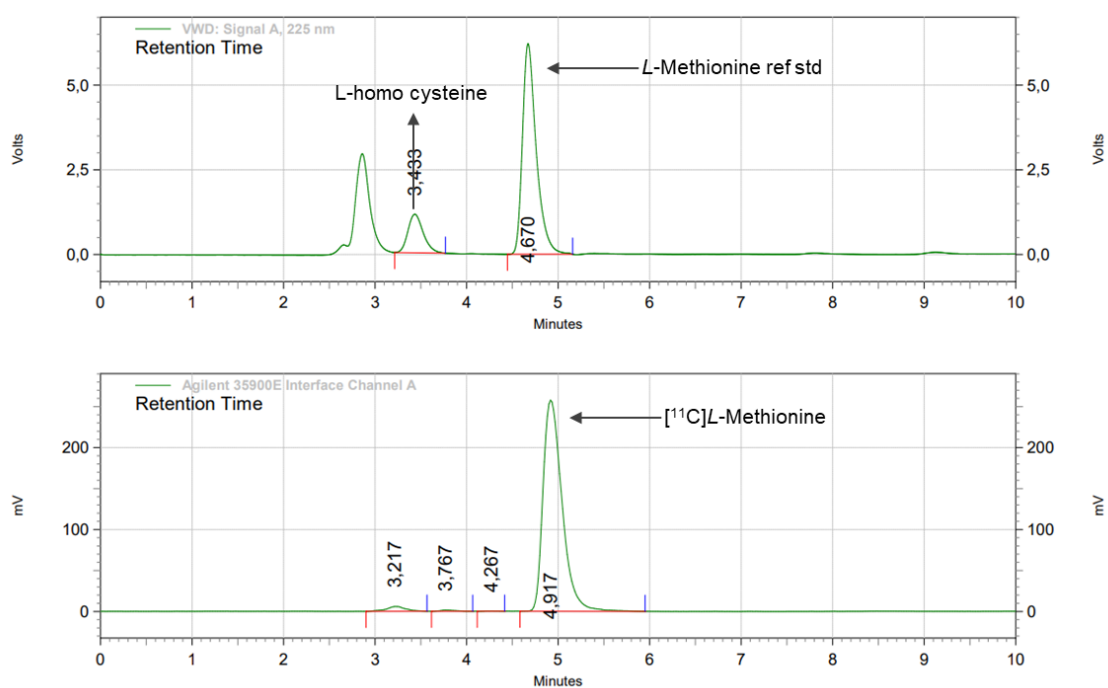


Figure S1. HPLC chromatogram of L-[¹¹C]methionine (radio and UV detector).

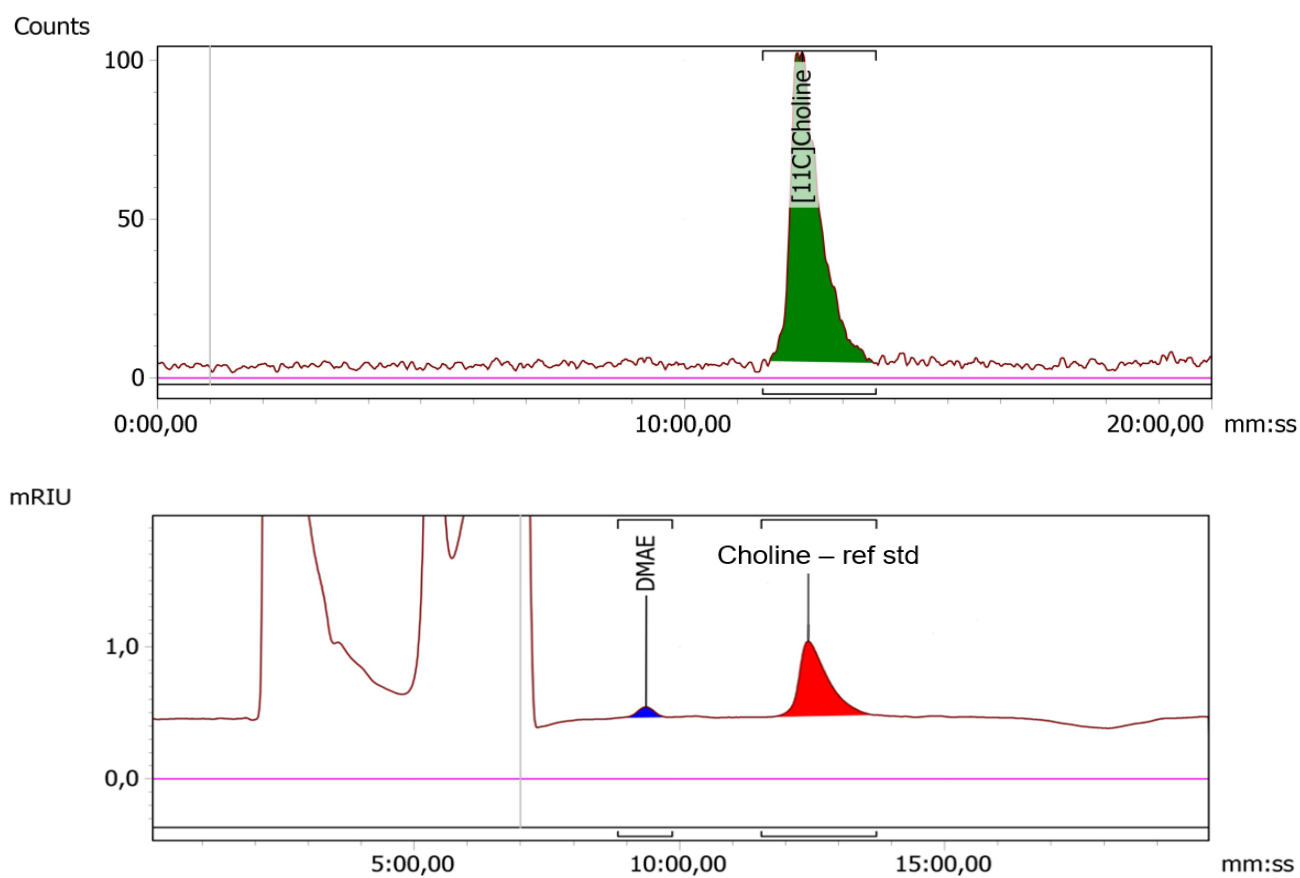
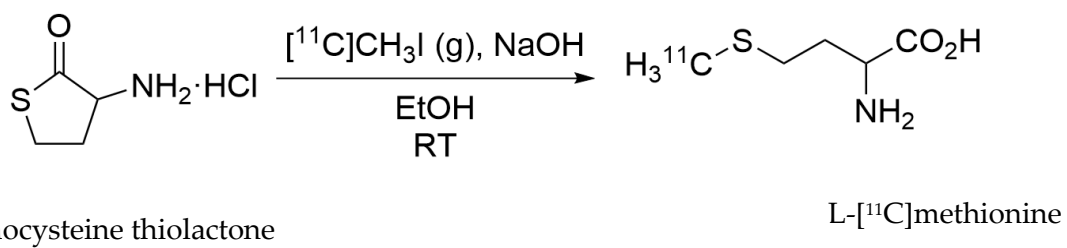
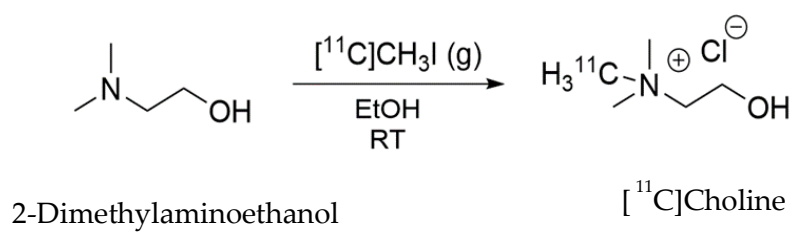


Figure S2. HPLC chromatogram of [¹¹C]choline (radio and refractive index detector).

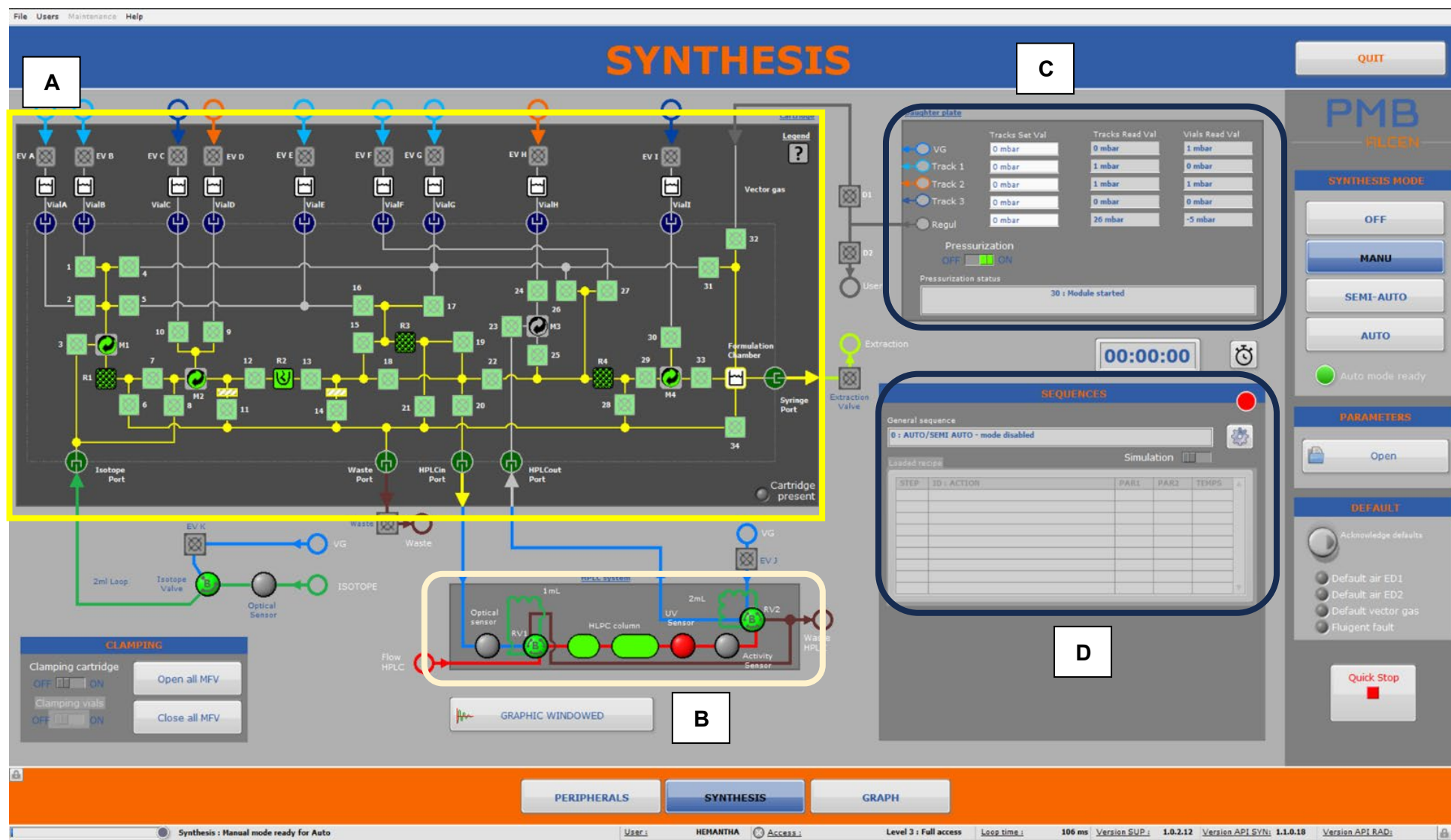


Scheme S1. Schematic of L-[¹¹C]methionine reaction



Scheme S2. Schematic of [¹¹C]choline reaction

Figure S3. An overview of the iMiDEV™ supervision software



The above figure shows the complete configuration of the iMiDEV™ microfluidic module including, A) 34 microfluidic valves, B) preparative HPLC connected to the cassette for purification, C) pressure regulation reagents transfer , and D) sequence loading tab.