Supporting Information

Combining batch and continuous flow setups in the end-to-end synthesis of naturally occurring curcuminoids

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1. Pump 1
2. Ethyl acetate
3. PFA loop containing acetylacetone, boron anhydride, vanillin, tributyl borate and ethyl acetate.
4. Pump 2
5. n-butylamine in ethyl acetate
6. Input – Reactor #1
7. Output – Reactor 1
8. Mixer (T-piece)
9. Input – Reactor #2
10. GC Oven (door opened)
11. Reactor #1 (PTFE) (10 mL)
12. Reactor #2 (PFA) (40 mL)
13. Output - Reactor #2

**Figure S1.** (Top). Asia Syringe Pump with the PTFE loop module. (Bottom) PFA Flow Reactors 1 and 2 inside the GC oven.
**Figure S2.** (Top). Backpressure regulator of 2.7 bar at the exit of the Flow Reactor #2. (Bottom) Flow setup for liquid-liquid extraction using the Schott® Flask.

13. Output – Reactor #2  
14. Liquid-liquid extraction (Schott® Flask)  
15. HCl Reservoir  
16. Peristaltic Pump
Figure S3. (Top). Overview of the setup. (Bottom) Curcumin (1) obtained on a 7.50 g scale (63% yield) after 7h of process intensification.
Figure S4. Flow setup for the synthesis of bis-demethoxycurcumin (2). (Left) Combined batch and continuous flow protocols. (Right) End-to-end continuous method.
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