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1. Fig.S1.

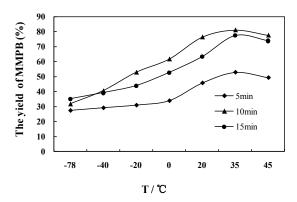


Fig.S1. Effect of reaction temperature on the yield of MMPB

2. Fig.S2.

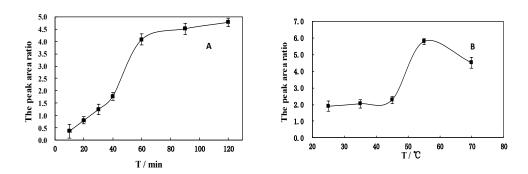


Fig.S2. Peak area ratio of the target compound, MMPB-OCH₃ and 4-PB-OCH₃. The reaction adopts 14% BF₃-methanol as the derivatization reagent, as influenced by: (A) Reaction time. (B) Reaction temperatures (ranging from 25 to 70° C).

3. Results about intraday and interday precisions

Precision (intraday/interday) was expressed as the percentage relative standard deviation (RSD), and was then evaluated using concentrations of 30 μ g L⁻¹, 100 μ g L⁻¹ of MCs. The solutions were spiked in lake water samples, we repeated the analysis 4 times on different days (n=4)

Table S1 Results of precision

Concentration (µg L ⁻¹)	Measured	Intraday RSD (%)	Interday RSD (%)
30	23.8	4.3	6.7
100	80.2	6.5	8.7