

Supporting information

Facile Synthesis of Molecularly Imprinted Ratiometric Fluorescence Sensor for Ciguatoxin P-CTX-3C Detection in Fish

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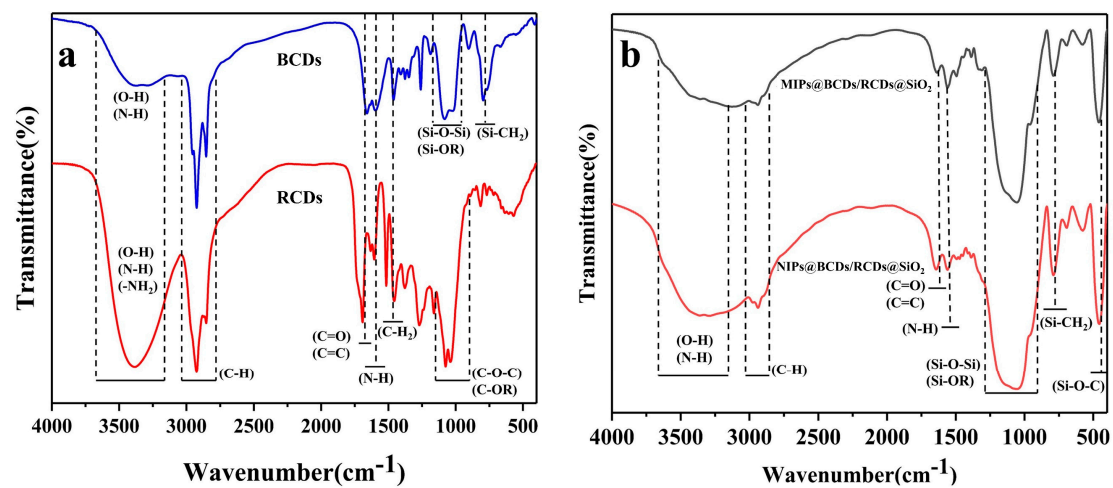


Figure S1. FT-IR diagram of RCDs, BCDs(a) and MIPs@BCDs/RCDs@SiO₂,
NIPs@BCDs/RCDs@SiO₂(b)

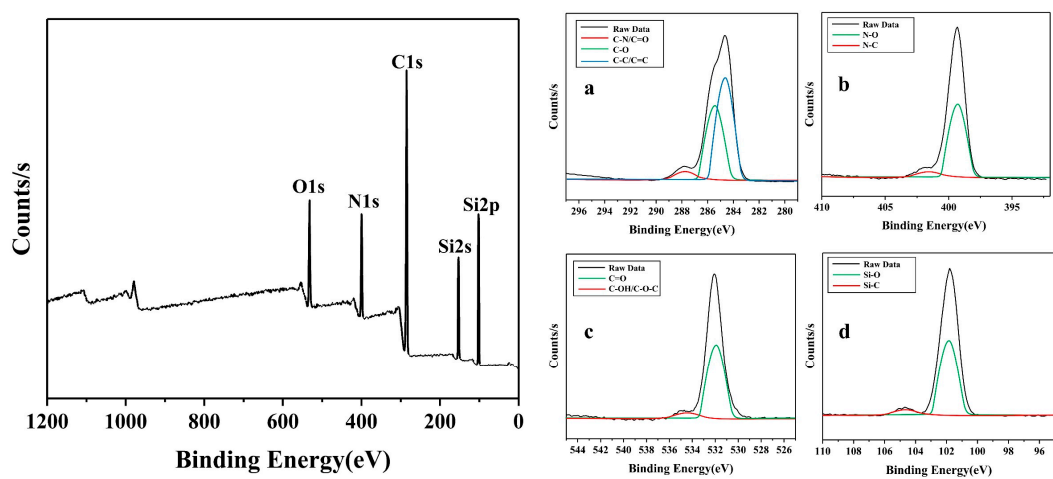


Figure S2. XPS spectra of MIP@BCDs/RCDs@SiO₂ and C1s(a), N1s(b), O1s(c) and Si2p(d)

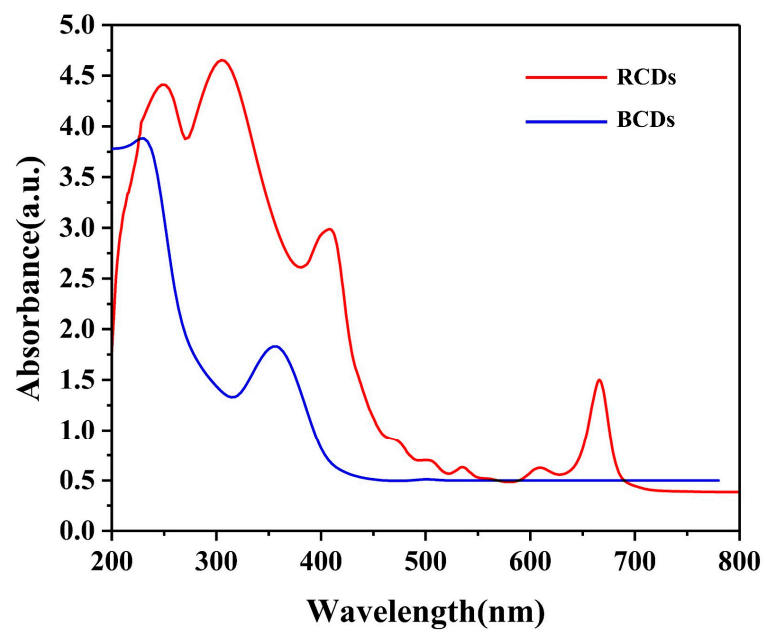


Figure S3. Uv-vis diagram of RCDs and BCDs

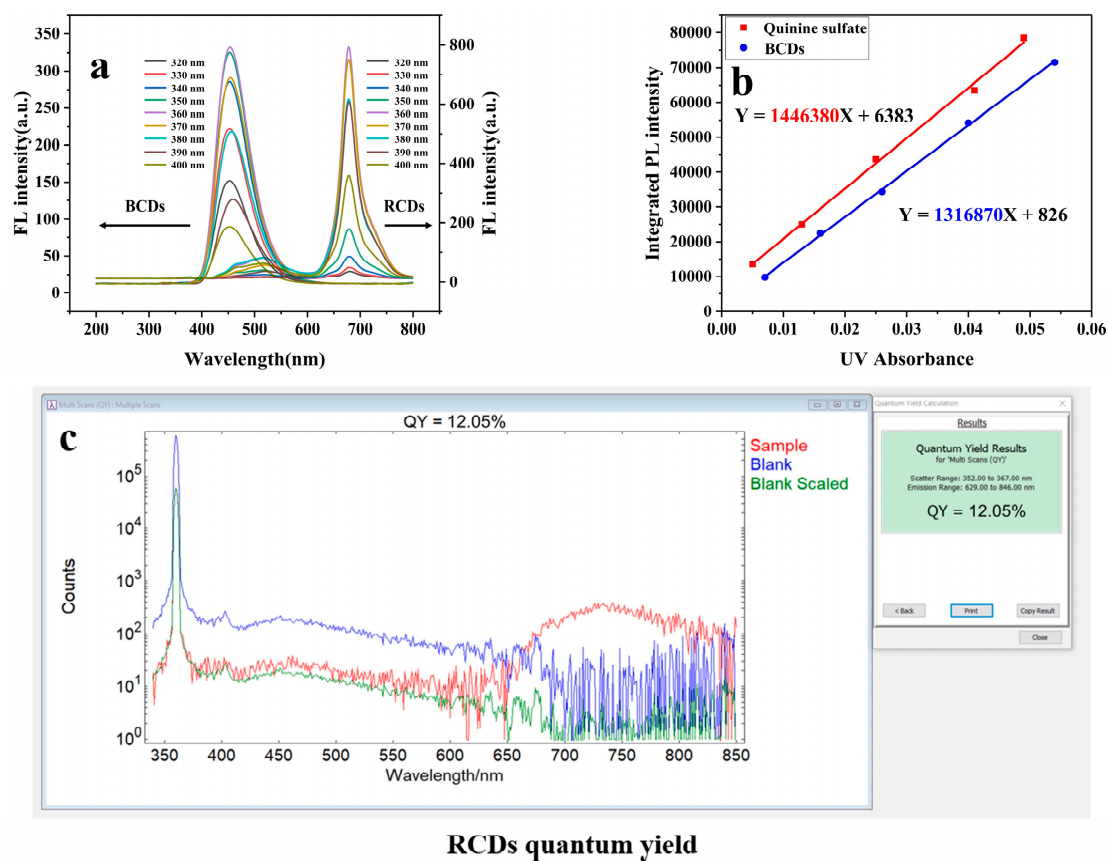


Figure S4. Fluorescence spectra of RCDs and BCDs(a), linear curve comparison of BCDs and quinine sulfate(b), quantum yield of RCDs(c)

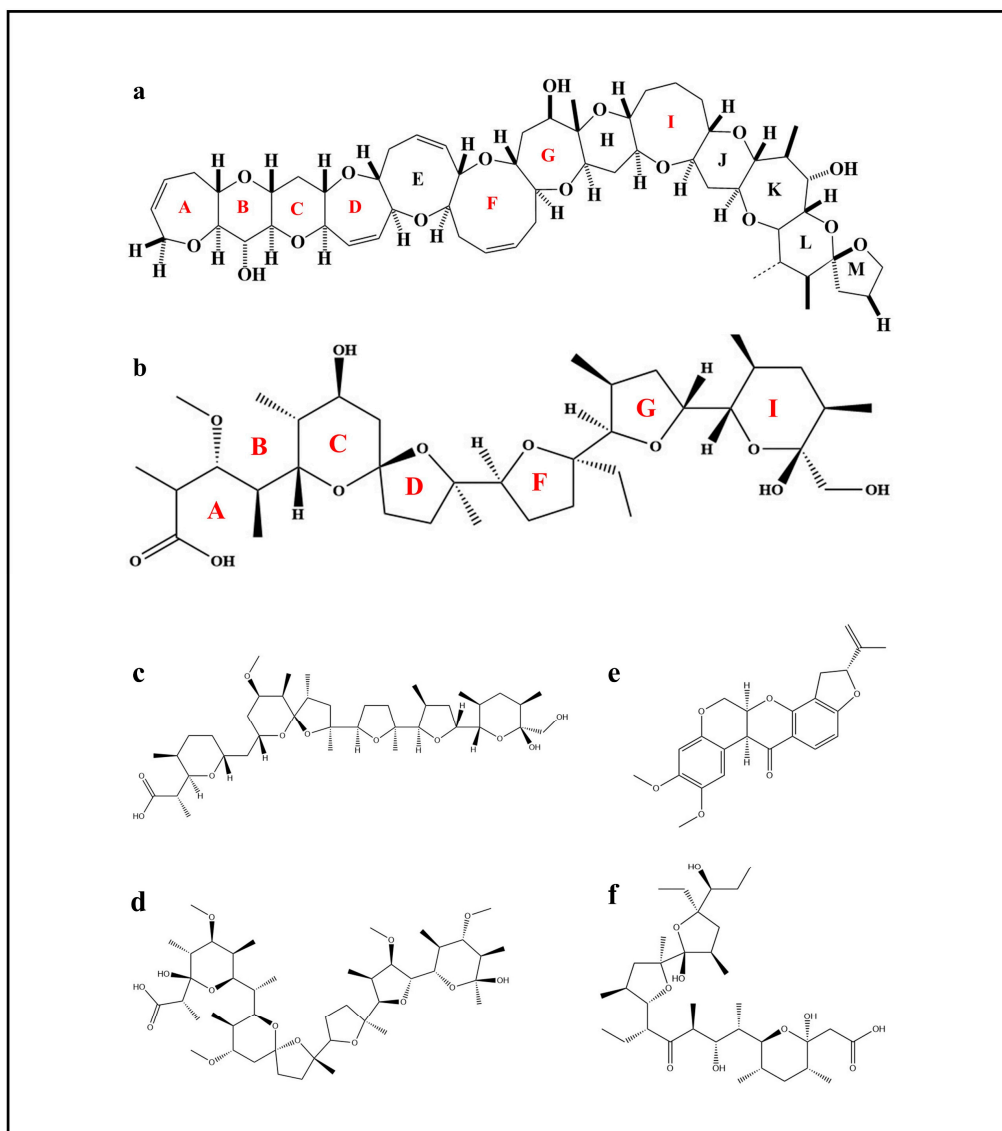


Figure S5. Molecular formulas of P-CTX-3C(a), monensin(b), nigericin(c), rotenone(d), ionomycin A(e) and lysozyme(f)

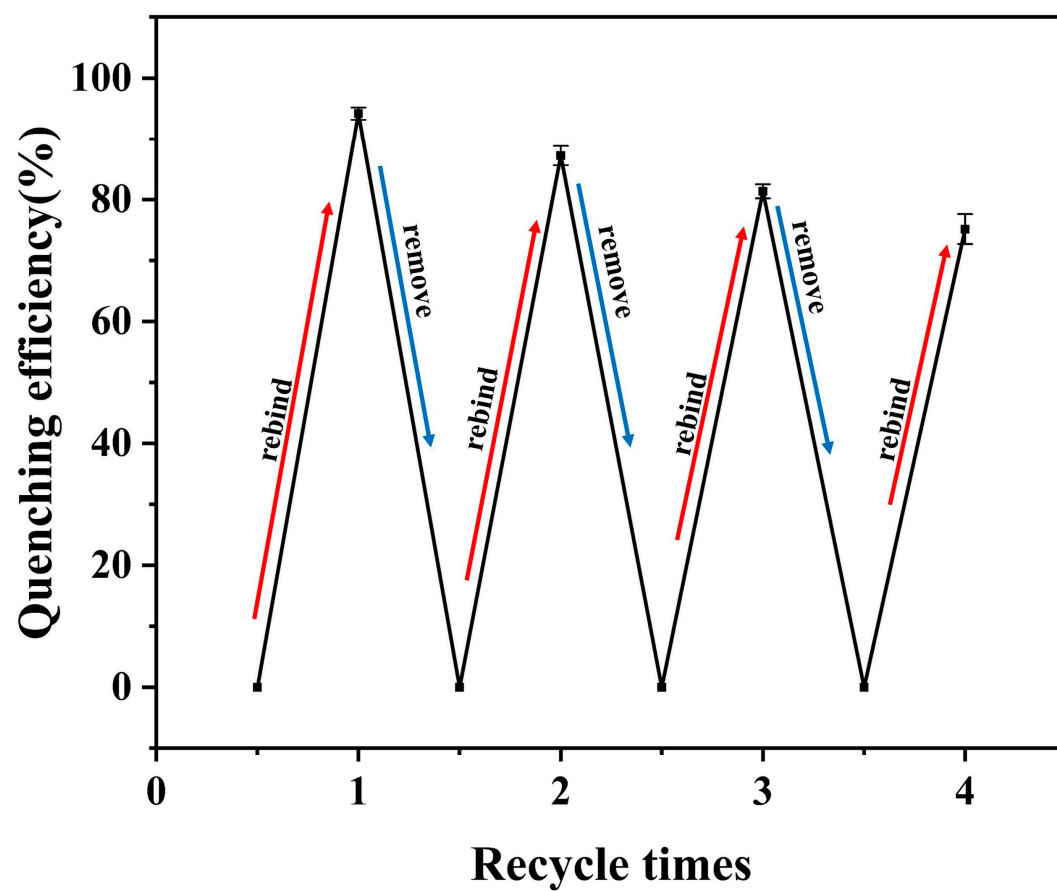


Figure S6. Four cycles of absorption and desorption of P-CTX-3C