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## **Supplementary Information**

## Test strip and smartphone-assisted Eu-TCPE-based ratiometric fluorescence sensor for ultrasensitive detection of tetracycline

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Fig. S1 XRD patterns of Eu-TCPE before and after soaking in H<sub>2</sub>O for 12 h.



Fig. S2 Fluorescence response (F<sub>615</sub>/F<sub>449</sub>) of Eu-TCPE sensor for the interfering substances such as

(a) metal cations, and (b) antibiotics and amino acids with or without adding TC.