

Supplementary Information

Microfluidic fluorescent platform for rapid and visual detection of veterinary drugs

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Number of Pages: 6

Number of Figures: 4

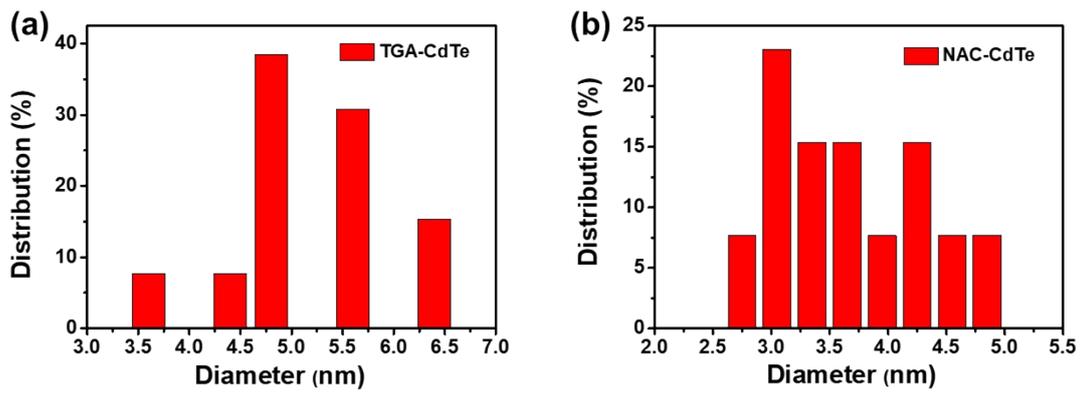


Fig. S1. Size distribution histogram of (a) the TGA-CdTe QDs and (b) the NAC-CdTe QDs.

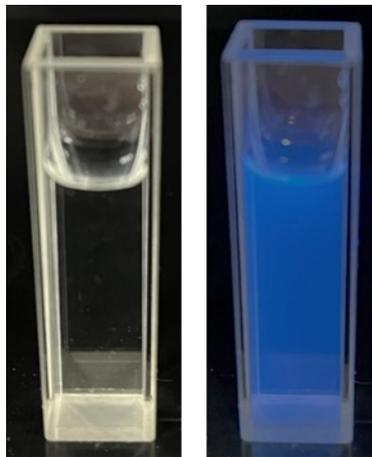


Fig. S2. Photographs of pefloxacin solution (1000 μM) under sunlight (left) and under UV (365 nm) irradiation (right).

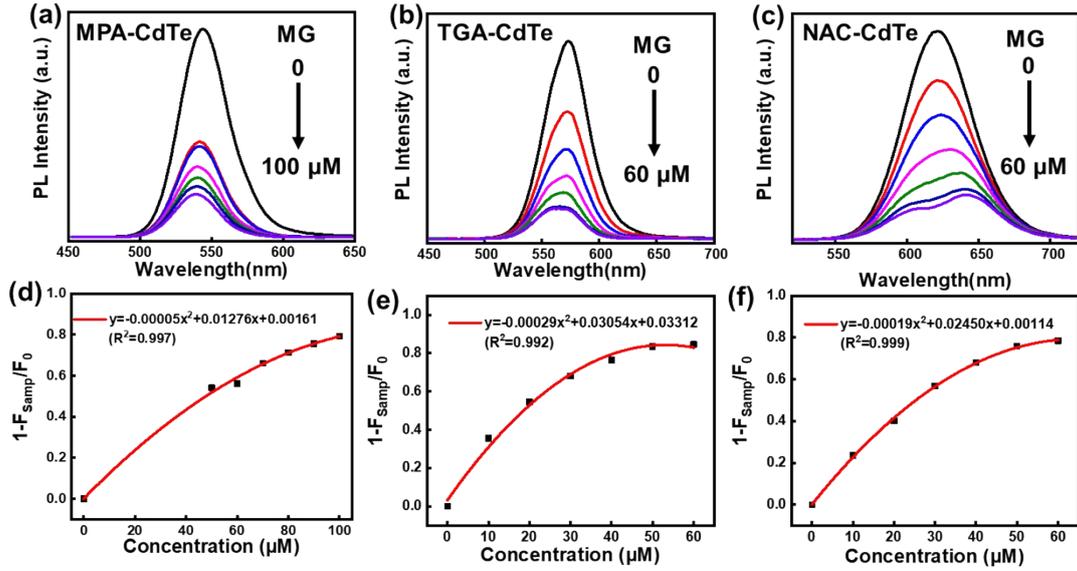


Fig. S3. PL spectra of (a) MPA-CdTe QDs, (b) TGA-CdTe QDs and (c) NAC-CdTe QDs with the addition of different concentrations of MG. The dependence of $1-F_{\text{samp}}/F_0$ of (d) MPA-CdTe QDs, (e) TGA-CdTe QDs and (f) NAC-CdTe QDs on the concentration of MG.

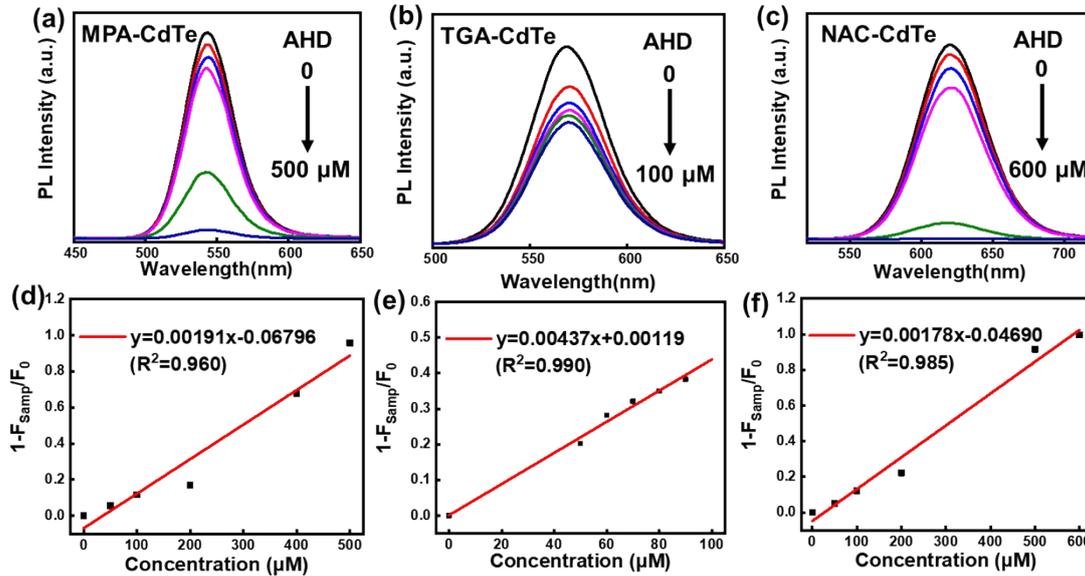


Fig. S4. PL spectra of (a) MPA-CdTe QDs, (b) TGA-CdTe QDs and (c) NAC-CdTe QDs with the addition of different concentrations of AHD. The dependence of $1-F_{\text{samp}}/F_0$ of (d) MPA-CdTe QDs, (e) TGA-CdTe QDs and (f) NAC-CdTe QDs on the concentration of AHD.

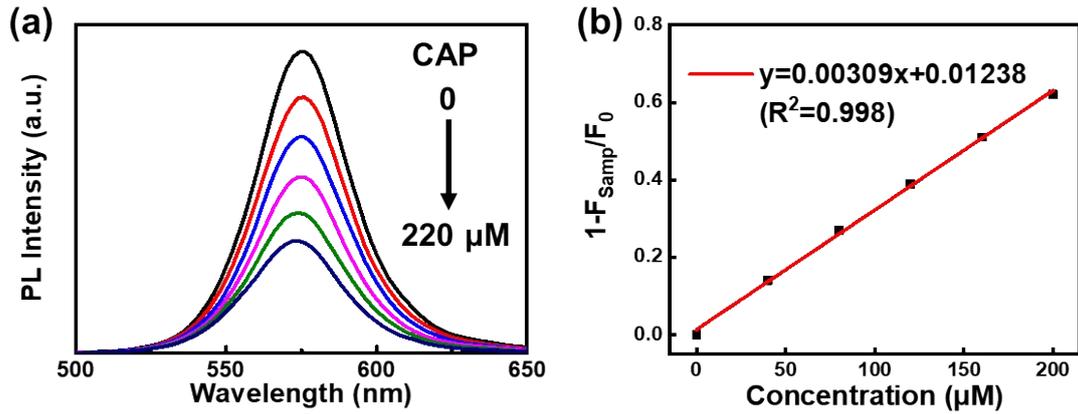


Fig. S5. (a) PL spectra of TGA-CdTe QDs with the addition of different concentrations of CAP. (b) Linear relationship between $1-F_{\text{samp}}/F_0$ and CAP concentration.

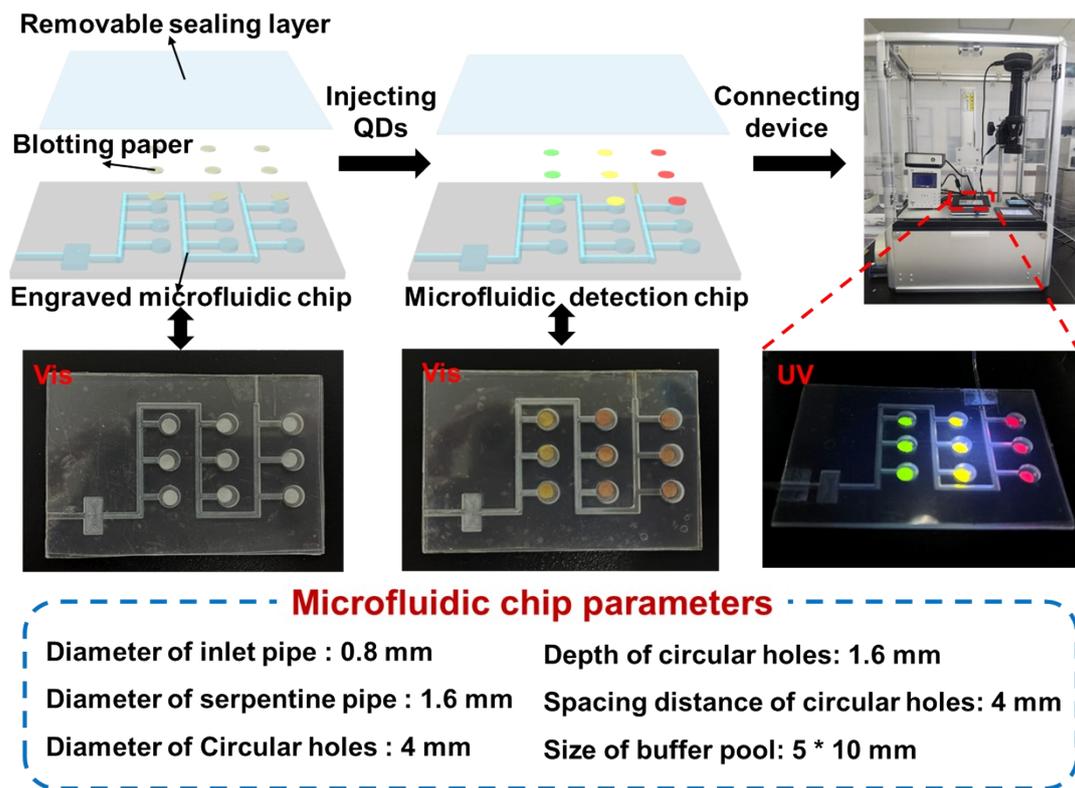


Fig. S6. Schematic illustrations of the construction of a microfluidic chip used for the detection platform and its related parameters.

Movie S1. Visual fluorescence sensing and detection towards veterinary drugs via microfluidic detection platform.