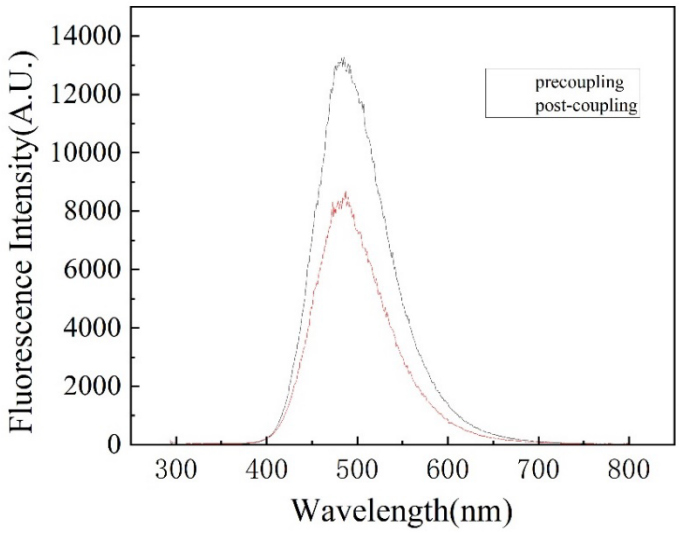
Aptamer-Based Sensor for Rapid and Sensitive Detection of Ofloxacin in Meat Products



1 OFL coupling rates

Figure S1. OFL coupling rates.

2 Agarose gel electropherogram

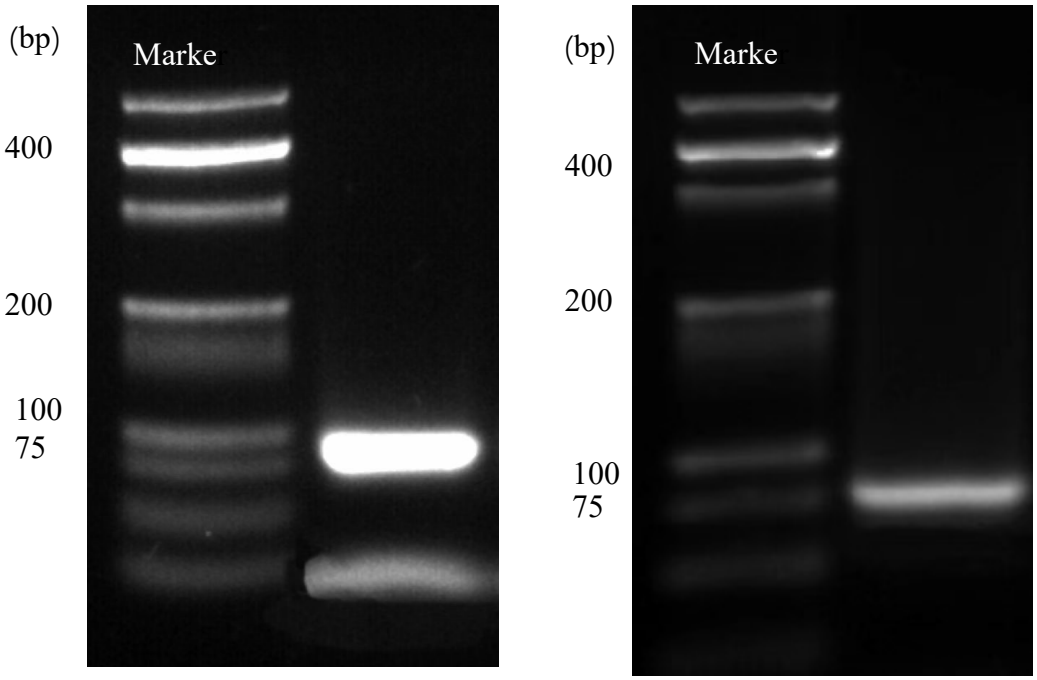


Figure S2. 3% agarose gel electrophoresis plots (A) Second round agarose gel electrophoresis plot; (B) Twelfth round agarose gel electrophoresis plot.

3 Meat High Performance Liquid Chromatography

3.1 HPLC conditions

The separation was performed on a themo scientific high performance liquid chromatograph (HPLC) with an Osaka Soda Capcell Pak C18 MG S-5 column (250 mm×4.6 mm, 5 μm) and methanol as the mobile phase at a detection wavelength of 280 nm at a flow rate of 0.3 mL/min and a temperature of 35 ℃.The flow rate was 0.3 mL/min and the injection volume was 20 μL(Cheng et al., 2009; Wang and Gao et al., 2015; Zhang et al., 2016; Huang et al., 2021; Wang et al., 2021).

3.2 HPLC results

As can be seen from Figure S1, under the chromatographic conditions, there was no obvious interference peak at the retention time of OFL, and the peak shape was good. In the actual sample testing, no peak appeared at the retention time of OFL, indicating that the sample did not contain OFL.

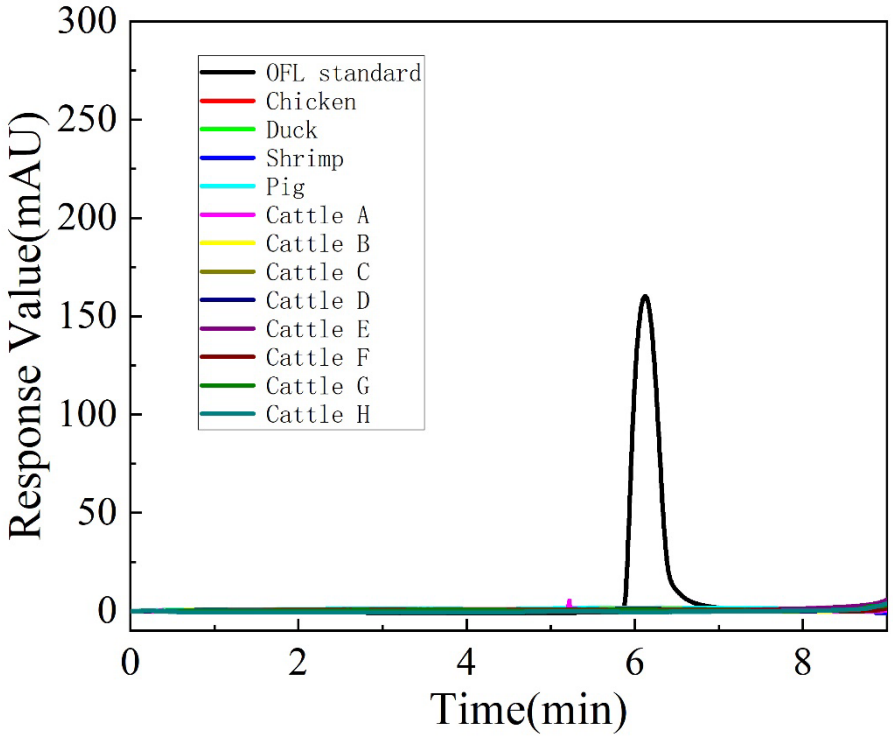


Figure S3. Results of high performance liquid chromatography.

References

Cheng, G. and H. Wu, et al. (2009). "Automated on-line microdialysis sampling coupled with high-performance liquid chromatography for simultaneous determination of malondialdehyde and OFL in whole blood." Talanta **79** (4): 1071-1075.

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