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Supplementary Materials: A Rapid Label-Free Fluorescent Aptasensor PicoGreen-Based Strategy for Aflatoxin B1 Detection in Traditional Chinese Medicines

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Table S1. DNA aptamer corresponding complementary sequence used in this study.

NO.	Sequence(5'-3')	Correspond
Seq 1	TTCACGGTAGCACGCATAGGTGGGGGCAGCTAAAGTCTCCCATTG	Apt1
	AGCGCATGATAGCACCATCTGACCTCTGTGCTGCT	
Seq 2	TTCACGGTAGCACGCATAGGTAGTAAACCAAGTCAGTAGGTTGAA	Apt2
	AAGGTGTCAGTTAGACATCTGACCTCTGTGATGCT	
Seq 3	TGTGGGCCTAGCGAAGGGCACGAGACACAGAGAGACAACACGTG	Apt3
	CCCAAC	
Seq 4	TTTTTGTGGGCCTAGCGAAGGGCACGAGACACAGAGAGACAACA	Apt4
	CGTGCCCACATTT	
Seq 5	TAGATTGCACTTACTATCTACAGCCACCACGCACCGCGAGCCACC	Apt5
	ACTCCCCTCCCCTGCACAATTGAATAAGCTG	
Seq 6	GGGACAGCACTTCACACGATTTACCTCCCACTCCTCAGTTCCGCTT	Apt6
	AGGATTACCCGATGCGTAATGACTGTAGTGATGC	
Seq 7	GTGGGCCTAGCGAAGGGCACGAGACACAGAGAGACAACACGTGC	Apt7
	CCAACAAAAA	

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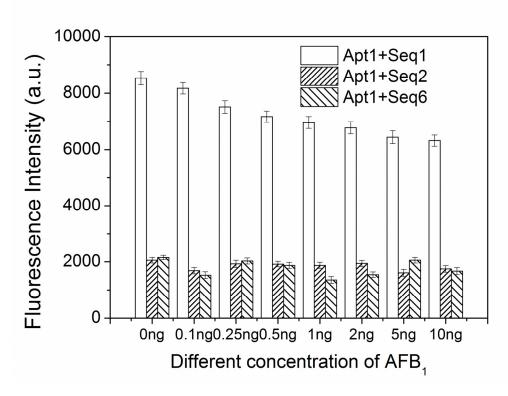


Figure S1. Fluorescence intensity of aptamer binds with same length but different complementary sequence by various concentrations of AFB1. Results are from three independent experiments.

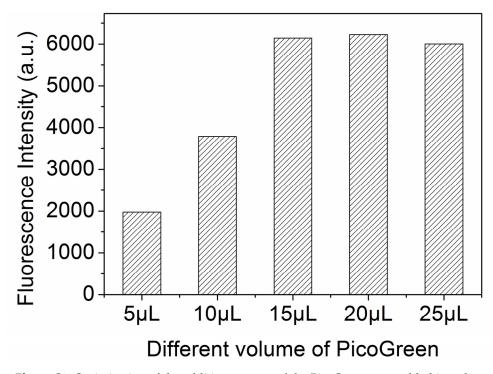


Figure S2. Optimization of the addition amount of the PicoGreen were added into the aptamer and complementary strand mixture.

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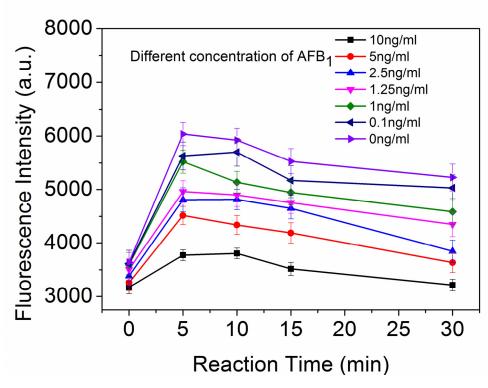


Figure S3. Optimization of the incubation time after aptamer complementary strand and PicoGreen were added into the different concentration of AFB1 and aptamer mixture. Error bars were obtained from three experiments.

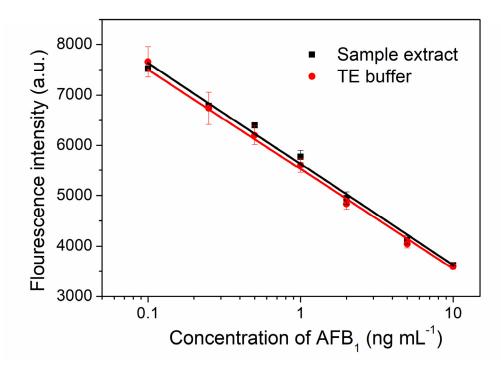


Figure S4. Calibration plot relative Flouresence of the PG/aptamer duplex mixture against different concentrations of AFB1 in arecae nut extract (black line, y=5528.39-2004.66lgx, R= 0.9975) and TE buffer (red line, y=5527.48-1976.13lgx, R=0.9987). Error bars were obtained from three experiments.