

Supplemental materials

A highly sensitive and group-specific enzyme-linked immunosorbent assay (ELISA) for the detection of AFB₁ in agriculture and aquiculture products

Junlin Cao^a, Ting Wang^a, Kang Wu^{b*}, Fengjie Zhou^c, Yuze Feng^a, Jianguo Li^{a,*},

Anping Deng^{a,*}

^a College of Chemistry, Chemical Engineering & Materials Science, Soochow University, Renai Road 199, Suzhou 215123, China

^b School of Biology & Basic Medical Science, Soochow University, Renai Road 199, Suzhou, 215123, China

^c Suzhou Agricultural Products Safety and Quality Inspection Center, Wuzhong Road 1399, Suzhou, 215000, China

* Corresponding authors: Tel: +86 512 65884630; Fax: +86 512 65884630
e-mail: wukang650202@163.com; lijgsd@suda.edu.cn; denganping@suda.edu.cn

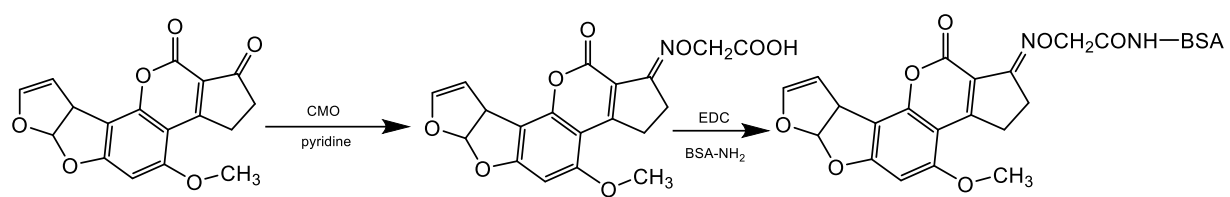


Fig. S1. Synthesis of AFB₁-BSA conjugate

Table S1. Wheat flour sample spiked with AFs and measured by LC-MS/MS

AFB ₁		AFB ₂		AFG ₁		AFG ₂	
Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Spiked	Measured	Spiked	Measured	Spiked	Measured	Spiked	Measured
(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)	(ng g ⁻¹)
0	1.40	0	0.21	0	0.75	0	0.09
5	5.55	1.25	0.96	5	4.63	1.25	1.03
10	9.68	2.5	1.80	10	9.57	2.5	2.17
20	20.11	5	3.70	20	19.13	5	4.30