

Supplementary Materials: Occurrence and Characterization of Fungi and Mycotoxins in Contaminated Medicinal Herbs

Ling Chen, Weipeng Guo, Yuqing Zheng, Jinzhen Zhou, Tingting Liu, Wei Chen, Daqing Liang, Meiping Zhao, Yudan Zhu, Qingping Wu and Jumei Zhang *

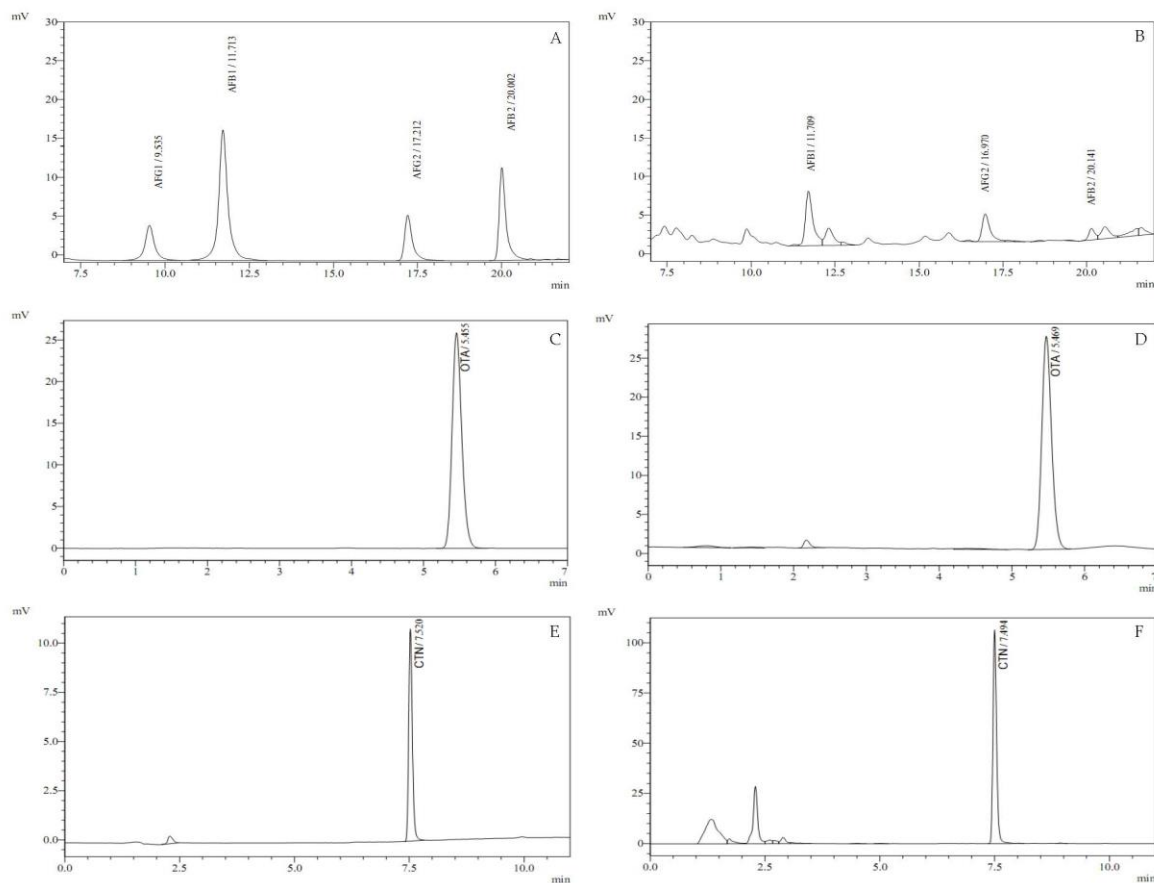


Figure S1. HPLC-FLD chromatograms for (A) AFB₁, AFB₂, AFG₁, AFG₂ standard (AFB₁, AFG₁ = 10 ng mL⁻¹; AFB₂, AFG₂ = 3 ng mL⁻¹); (B) AFB₁, AFB₂, AFG₂ positive samples (*Ganderma lucidum* 06-3); (C) OTA standard (OTA = 20 ng mL⁻¹); (D) OTA positive samples (*Codonopsis radix* 03-1); (E) CTN standard (CTN = 10 ng mL⁻¹); (F) CTN positive samples (*Tremella fuciformis* 10-3).

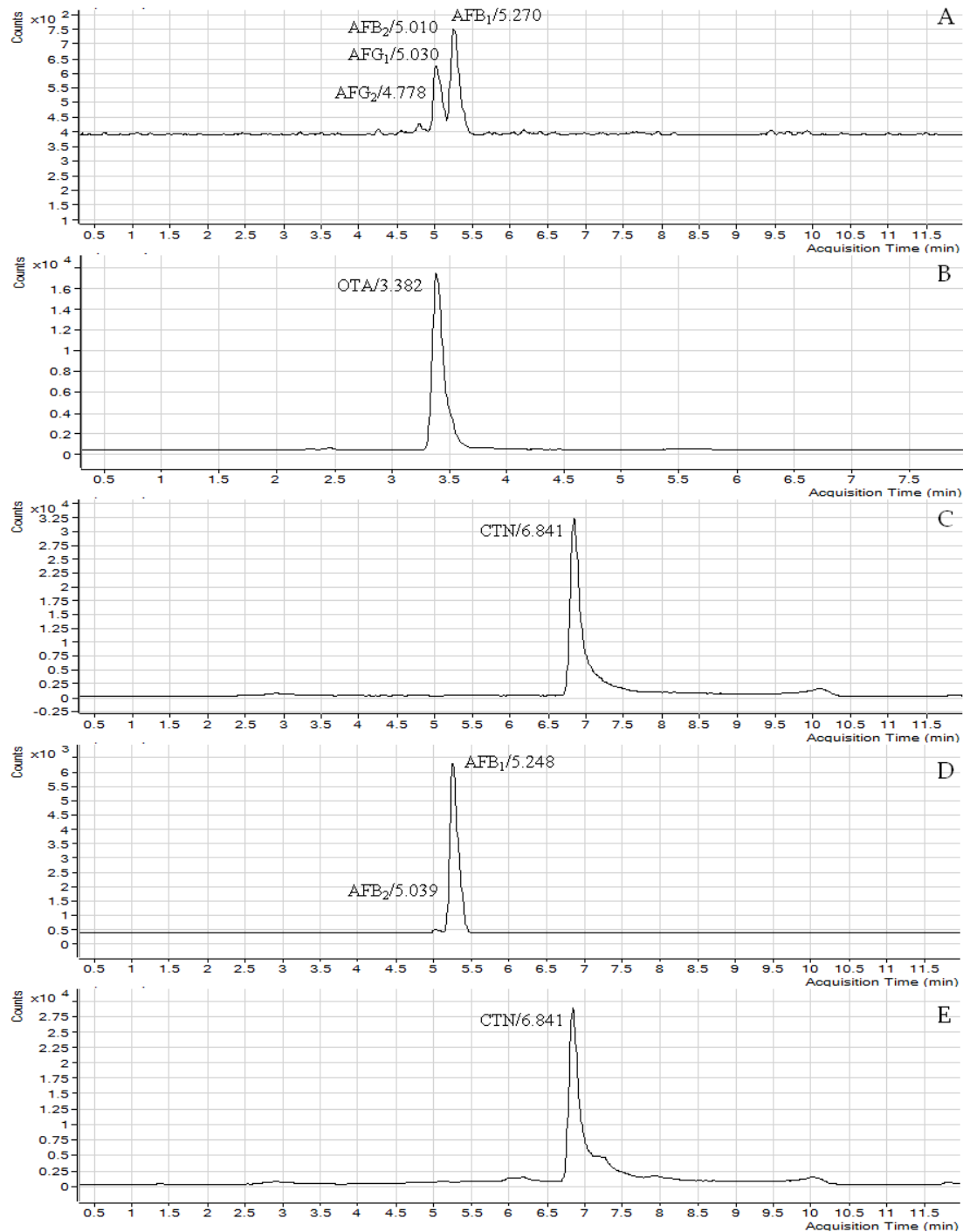


Figure S2. HPLC-MS/MS chromatograms with MRM modes for (A) AFB₁, AFB₂, AFG₁, AFG₂ standard; (B) OTA standard; (C) CTN standard; (D) AFB₁, AFB₂ positive strain (*Aspergillus flavus* isolated from *Amomi fructus* 08-3); (E) CTN positive strain (*Aspergillus chevalieri* isolated from *Amomi fructus* 08-1). Two precursor-to-product ion transitions were simultaneously monitored at m/z 313.0–285.0, m/z 313.0–269.0 for AFB₁; m/z 315.0–287.1, m/z 315.0–259.1 for AFB₂; m/z 329.1–243.2, m/z 329.1–311.0 for AFG₁; m/z 331.0–313.0, m/z 331.0–245.0 for AFG₂; m/z 404.1–239.0, m/z 404.1–358.0 for OTA; and m/z 251.0–233.0, m/z 251.0–205.0 for CTN.

Table S1. Calibration curve, limit of quantification and limit of detection of six mycotoxins.

Mycotoxin	Linear Equation	Linear Range (ng mL⁻¹)	Correlation Coefficient	LOQ (LOD) (µg kg⁻¹)	Reference
AFB ₁	Y = 59369X - 8373	0.1–50	0.9998	0.042 (0.012)	
AFB ₂	Y = 72146X - 2738	0.03–15	0.9998	0.023 (0.0068)	[28]
AFG ₁	Y = 24178X - 4037	0.1–50	0.9998	0.10 (0.030)	
AFG ₂	Y = 41168X - 1570	0.03–15	0.9998	0.040 (0.012)	
OTA	Y = 7508X - 108	1–50	0.9999	0.12 (0.040)	[29]
CTN	Y = 3002.98X - 33.74	2.5–50	0.9991	4.2 (1.3)	[30]