

Table S1. Analysis of Modified mycotoxins

Matrices	Analytical method	Modified mycotoxin	Reference
Wheat	GC-MS, HPLC-MS	DON3G	Simsek 2013
	HPLC-MS	DON3G, DON-di-hexoside, 15A-DON3G, DON-malonylglucoside; DON-S-glutathione, “DON-2H”-S-glutathione, DON-S-cysteinyl-glycine, DON-S-cysteine	Kluger 2014
		ZEA 4-β-D-glucopyranoside	Schneweis 2002
	LC-MS/MS	ZEA4G, A-DON, DON3G	Galaverna 2009
	FPIA	T-2 glucoside and HT-2 glucoside	Lippolis 2019
Wheat, maize	HPLC FLD	ZEA 4-β-D-glucopyranoside	Gareis, 1990
	LC-MS/MS	DON3G; 3A-DON; 15A-DON; DON3S, DON15S DON-hexitol, DON-di-hexoside, 15A-DON3G, DON-glutathione derivative	Berthiller 2005; Berthiller 2016
Maize	HPLC-ESI-TQ-MS/MS	DON3G, 3A-DON, 15A-DON, enniatins A, A1, B, B1	Scarpino 2019
	HPLC FLD	15A-DON	Abbas 1986
	GC-ITMS	3A-DON; 15A-DON	Schollenberger 2008
	UPLC-MS/MS	DON3G; 3A-DON; 15A-DON	Zhang 2022
	UPLC-ESI/MS LC-MS/MS	Hidden fumonisin	Falavigna 2012; Bryła 2015; Bryła 2016
Gluten-free maize flour	LC-MS/MS		Bryła 2014
Maize, pasta, bread, cakes, crisps, flour	LC-MS/MS; HPLC-FLD; HPLC-MS		Dall’Asta 2008; Kim 2003; Park 2004
Tomato, potato, maize, carrots, wheat, soybean, paprika	HPLC FLD	4R)- and (4S)-4-hydroxy-OTA; their β-glucosides	Ruhland 1997
Baby formula, rice	LC-UVVIS	DON-3G, nivalenol-3-glucoside	Lee 2019
Barley	LCMS/MS, NMR	DON-GSH derivatives	Gardiner 2010
Urine pigs, mice, cows	UPLC-ESI/MS LC-MS/MS	iso-DON-8-GlcAc; DON-GlcAc; iso-DOM-8-GlcAc; DOM-GlcAc; DON-8,15-hemiketal-8-glucuronide; DON-3-GlcAc; DON-15-GlcAc; iso-DON-3-GlcAc; DOM-GlcAc; DOM-3-GlcAc; DOM-15-GlcAc; iso-DOM-3-GlcAc	Schwartz-Zimmermann 2017
Pigs feces and urine	LC-MSMS	DON3G	Nagl 2014
	HPLC FLD	ZEA 4-β-D-glucopyranoside	Gareis, 1990
Rats feces and urine	LC-MSMS	DON3G	Nagl 2012
Rat urine	LC-UV; LCMS	4(R)- and (4S)-4-hydroxy-OTA	Storen 1982
	(IAC)-HPLC	DON-glucuronide	Meky 2003
Human urine	LC-MS/MS	ZEA metabolites	Ali 2018
		modified DON and ZEA	Solfrizzo 2014
Human microbioma	LC-MSMS	DON3G, ZEA14G, ZEA14S	Dall’Erta 2013
Liquid fungal culture	HPLC-MS/MS	ZEA-14-sulfate; ZEA-O-14-glucoside; ZEA-O-16-glucoside	Brodehl 2014
		T-2-3α-glucoside; HT-2-3-glucoside	Schmidt 2018
Liver microsomes	LCQTOF-MS	4(R)-HO-OTA; 4(S)-HO-OTA; 9’-HO-OTA; 7’-HO-OTA; 5’-HOOTA; OTB	Yang 2015

human breast cancer cell culture	Fluorescence spectroscopy
β -CD bead polymer	

ZEN-14-Glc

Dellafiora 2016

Faisal 2019
