List of CEN, EN and ISO methods for the analysis of mycotoxins in food and feed. *(revision December 2022)*

Matrix	Mycotoxins	Method	Description
Cereals, nuts and derived products	Aflatoxins B1, B2, G1, G2	EN ISO 16050:2011	Foodstuffs - Determination of aflatoxin B1 and total aflatoxin B1, B2, G1 and G2 content in cereals, nuts and derived products - High performance liquid chromatographic method (ISO 16050:2003)
Cereals, nuts and derived products	Aflatoxins B1, B2, G1, G2	EN 14123:2007	Foodstuffs - Determination of aflatoxin B1 and total aflatoxin B1, B2, G1 and G2 content in hazelnut, peanut, pistachio, fig and paprika powder High Performance Chromatography (HPLC) method with post-column derivatisation and immunoaffinity column purification
Cereal-based foods	Aflatoxins B1	UNI EN 15851:2010	Foodstuffs - Determinazione di aflatossina B1 in alimenti a base di cereali per lattanti e prima infanzia - Metodo per cromatografia ad alta risoluzione (HPLC) con purificazione in colonna di immunoaffinità e rivelazione a fluorescenza
Food: spices other than paprika	Aflatoxins B1, B2, G1, G2	EN 17424:2020	Foodstuffs - Determination of aflatoxins in spices other than paprika by IAC clean-up and HPLC-FLD with post-column derivatization
Milk and dairy products	Aflatoxins M1	ISO 14675:2003	Milk and milk products - Guidelines for a standardised description of competitive enzyme immunoassays Determination of aflatoxin M1 content
Milk and milk powder	Aflatoxins M1	ISO14674:2005/ IDF 190:2005	Milk and milk powder - Determination of aflatoxin M1 content - Cleaning by immunoaffinity chromatography and determination by thin-layer chromatography
Milk and milk powder	Aflatoxins M1	EN ISO 14501:2021	Milk and milk powder - Determination of aflatoxin M1 content - Purification by immunoaffinity chromatography and determination by high-resolution liquid chromatography
Natural products	Aflatoxins	ISO 22283:2020	Traditional Chinese Medicine - Determination of aflatoxins in natural products by LC-FLD

Foodstuffs	Citrinin	UNI EN 17203:2021	Foodstuffs - Determination of citrinin in foodstuffs by LC-MS/MS
Cereals and cereal products	Ochratoxin A	ISO 15141:2018	Cereals and cereal products - Determination of ochratoxin A - High performance liquid chromatographic method, immunoaffinity column purification and fluorescence detection
Barley and roasted coffee	Ochratoxin A	UNI EN 14132:2009	Foodstuffs - Determination of ochratoxin A in barley and roasted coffee - High resolution chromatography (HPLC) method with immunoaffinity column purification
Wine and beer	Ochratoxin A	UNI EN 14133:2009	Foodstuffs - Determination of ochratoxin A in wine and beer - High resolution chromatography (HPLC) method with immunoaffinity column purification
Sultanas, mixed nuts, dried fruit and dried figs	Ochratoxin A	UNI EN 15829:2010	Foodstuffs - Determination of ochratoxin A in currants sultanas and sultanas (belonging to the Vitis Vinifera species), mixed nuts and dried figs - HPLC method with immunoaffinity column purification and fluorescence detection
Cereal-based foods	Ochratoxin A	EN 15835:2010	Foodstuffs - Determination of ochratoxin A in cereal-based foods for infants and young children - HPLC method with immunoaffinity column purification and fluorescence detection
Foods: paprika, chilli pepper, black and white pepper, nutmeg, spice mix, liquorice, cocoa and cocoa products	Ochratoxin A	EN 17250:2020	Foodstuffs - Determination of ochratoxin A in paprika, chilli, black and white pepper, nutmeg, spice mix, liquorice, cocoa and cocoa products by immunoaffinity column purification and high- performance liquid chromatography with fluorescence detection (HPLC-FLD)
Food: pork and derived products	Ochratoxin A	UNI EN 17251:2020	Foodstuffs - Determination of ochratoxin A in pork and pork products by IAC purification and high resolution liquid chromatography with fluorescence detection (HPLC-FLD)
Cereals and cereal products	Deoxynivalenol	DIN EN 15891:2010-12	Foodstuffs - Determination of deoxynivalenol in cereals, cereal products and cereal-based foods for infants and young children - HPLC method with immunoaffinity column purification and UV detection

Processed maize- based foods	Fumonisin B1, fumonisin B2	CEN/TS 16187:2011	Food products - Determination of fumonisin B1 and fumonisin B2 in processed maize-based foods for infants and young children - HPLC method with immunoaffinity column purification and fluorescence detection after pre-column derivatisation
Maize-based products	Fumonisin B1, fumonisin B2	EN 14352:2004	Foodstuffs - Determination of fumonisin B1 and B2 in maize- based foods - HPLC method with immunoaffinity column purification
Mais	Fumonisin B1, fumonisin B2	DIN EN ISO 520:2011-03	Foodstuffs - Determination of fumonisins B1 and B2 in maize - HPLC method purification by solid-phase extraction
Fruit juice and fruit purée	Patulin	UNI EN 15890:2010	Foodstuffs - Determination of patulin in fruit juices and fruit purées for infants and young children - HPLC method with purification by liquid/liquid partition and extraction to solid phase and UV detection
Apple juice and puree	Patulin	EN 14177:2003	Foodstuffs - Determination of patulin in clear and turbid apple juice and puree - HPLC method with liquid/liquid partition purification
Apple juice, apple juice concentrates and drinks containing apple juice	Patulin	ISO 8128-2:1993	Apple juice, apple juice concentrates and beverages containing apple juice - Determination of patulin content - Part 2: Thin layer chromatography method
Apple juice, apple juice concentrates and drinks containing apple juice	Patulin	ISO 8128-1:1993	Apple juice, apple juice concentrates and beverages containing apple juice - Determination of patulin content - Part 1: High performance liquid chromatography method.
Vegetable oils	Zearalenone	UNI EN 16924:2017	Foodstuffs - Determination of zearalenone in edible vegetable oils by LC-FLD or LC-MS / MS.
Maize-based baby food, barley flour, maize flour, polenta, wheat flour and cereal-based foods	Zearalenone	EN 15850:2010	Foodstuffs - Determination of zearalenone in corn, barley flour, maize flour, polenta, wheat flour and cereal-based baby foods for infants and young children - HPLC method with immunoaffinity column purification and fluorescence detection

Processed maize- based foods for infants and young children	Fumonisin B1, fumonisin B2	EN 16187:2015	Foodstuffs - Determination of fumonisin B1 and fumonisin B2 in processed maize-based foods for infants and young children - HPLC method with immunoaffinity column purification and fluorescence detection after column derivatisation.
Food: cereals and cereal products for infants and young children	T-2 toxin, HT-2 toxin	UNI EN 16923:2017	Foodstuffs - Determination of T-2 and HT-2 toxin in cereals and cereal products for infants and young children by LC-MS / MS after solid-phase purification
Food	Aflatoxin B1, deoxynivalenol, fumonisin B1 and fumonisin B2 ochratoxin A, T-2/HT-2 toxins, zearalenone	UNI EN 17279:2019	Foodstuffs - Multiple method for screening of aflatoxin B1, deoxynivalenol, fumonisin B1 and B2, ochratoxin A, T-2 toxin, HT-2 toxin and zearalenone in foodstuffs, excluding foods for infants and young children, by LC- MS/MS
Foodstuffs: Cereals and cereal products	Zearalenone, trichothecenes deoxynivalenol, 3-acetyl-DON, 15-acetyl-DON, nivalenol, T-2/HT-2 toxins	SIST EN 17280:2019	Foodstuffs - Determination of zearalenone and trichothecenes, including deoxynivalenol and its acetylated derivatives (3-acetyl deoxynivalenol and 15-acetyl deoxynivalenol), nivalenol T-2 toxin and HT- 2 toxin in cereals and cereal products by LC-MS/MS.
Food	Aflatoxins, deoxynivalenol, fumonisins, ochratoxin A, T-2/HT-2 toxins, zearalenone	EN17641:2022	Foodstuffs - Multiple method for the determination of aflatoxins, deoxynivalenol, fumonisins, ochratoxin A, T-2 toxin, HT-2 toxin and zearalenone by LC-MS/MS
Foodstuffs: Cereals and cereal products	ergocornine, ergocorninine, ergocristinine α-ergocryptine, ergometrine, ergometrinine, ergosine, ergotamine, ergotaminine	EN17425:2021	Foodstuffs - Determination of ergot alkaloids in cereals and cereal products by dSPE clean-up and HPLC-MS/MS
Food: tomato, wheat, sunflower seeds	Altenuene, alternariol, alternariol monomethyl ether, tenthioxin, tenuazonic acid	EN17521:2021	Foodstuffs - Determination of Alternaria toxins in tomatoes, wheat and sunflower seeds by purification in SPE and HPLC-MS/MS.

Lupin seeds and derived products	Fomopsin A	EN 17252:2020	Foodstuffs - Determination of fomopsin A in lupin seeds and derived products by LC- MS/MS.
Animal feed	Ochratoxin A	UNI EN 16007:2011	Animal feeding stuffs - Determination of ochratoxin A in animal feeding stuffs by immunoaffinity column purification and high-resolution liquid chromatography with fluorescence detection
Animal feed	Zearalenone	ISO 17372:2008/Amd 1:2013	Animal feeding stuffs - Determination of zearalenone by immunoaffinity column purification and high resolution liquid chromatography with fluorescence detection - Amendment 1: Scope limitation
Animal feed	Zearalenone	EN 15792:2009	Animal feeding stuffs - Determination of zearalenone in feedingstuffs - High performance liquid chromatography method with fluorescence detection and immunoaffinity column purification
Animal feed	Fumonisin B1, fumonisin B2	EN 16006:2011	Animal feeding stuff- Determination of the sum of Fumonisin B1 and B2 in compound feed with immunoaffinity clean-up and RP- HPLC with fluorescence detection after pre- or post-column derivatization
Animal feed	T-2/HT-2 toxins, deoxynivalenol, zearalenone	EN 16877:2016	Animal feeding stuff - Methods of sampling and analysis - Determination of T-2 and HT-2 toxins, deoxynivalenol and zearalenone, in feed materials and compound feed by LC-MS.
Animal feed	Ocratossina A, aflatossina B1, deossinivalenolo, zearalenone, tossina T-2/HT-2 fumonisina B1, fumonisina B2	UNI EN 17194:2019	Animal feedingstuffs - Methods of sampling and analysis - Determination of deoxynivalenol, aflatoxin B1, fumonisin B1&B2, T-2 and HT-2 toxin, zearalenone and ochratoxin A in feed materials and compound feed by LC-MS/MS