



# MYCOTOXINS ANALYSIS

**Mycotoxins are toxic compounds produced by different types of fungus. These fungi proliferate and may produce mycotoxins. They commonly enter the food chain through contaminated food and feed crops, mainly cereals.**

**ALS Czech Republic, as modern analytical laboratory, offers accredited analyses of certain mycotoxins also in express turnaround time - within 3 days.**

## Analyzed commodities

- Cereals and cereal products
- Nuts
- Dried fruits
- Spices
- Cocoa
- Feed



## Related legislation

- Commission Regulation (EU) No 165/2010 amending Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs as regards aflatoxins;
- Commission Regulation (EC) No 1126/2007 amending Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs as regards Fusarium toxins in maize and maize products;
- Commission Regulation (EC) No 401/2006, laying down the methods of sampling and analysis for the official control of the levels of mycotoxins in foodstuffs



## Methodology

- HPLC method with PDA or FLD detection

## Required sample amount for analysis

- Sampling procedure could considerably influence the amount of detected mycotoxins:
- 100 g
- 100 ml

## Offered parameters

Parameter	LOQ (µg/kg)	Method
Aflatoxin B1, B2, G1, G2	0,3	ČSN EN 12955, ČSN EN 14123
Sum of Aflatoxins	1,2	ČSN EN 12955, ČSN EN 14123
Aflatoxin B1, B2, G1, G2 for baby food	0,1	ČSN EN 12955, ČSN EN 14123
Sum of Aflatoxins for baby food	0,4	ČSN EN 12955, ČSN EN 14123
Aflatoxin M1	0,01	ČSN EN 14501
Ochratoxin A	0,15	ČSN EN 14132, ČSN EN 14133
Deoxynivalenol	50	ČSN EN 15791, ČSN EN 15891
Zearalenon	15	ČSN EN 15850
Patulin	5	ČSN EN 14177

Parameter	Results expression	Storage conditions	Matrixes
Aflatoxins B and G	Aflatoxin B1	Keep in dark place	Food with low moisture content, drinks, feed
	Aflatoxin B2		
	Aflatoxin G1		
	Aflatoxin G2		
	Sum of aflatoxins		
Aflatoxin M1	As Aflatoxin M1		Milk, dairy products, milk powder
Ochratoxin A	As Ochratoxin A		Food with low moisture content, drinks, feed
Zearalenon	As Zearalenon		Feed, cereals
Deoxynivalenol	As Deoxynivalenol		Food with low moisture content, drinks, feed
Patulin	As Patulin		Food with high moisture content, drinks, food supplement



## Our qualifications

- Laboratory is accredited according to ČSN EN ISO/IEC 17025, valid for EU countries and recognized by ILAC, IAF, EA, APLAC and IAAC organizations.
- We successfully take part in international proficiency testing schemes.

**For more details please contact us.**

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