



Eurofins Technologies Mycotoxin Kits

The term "mycotoxin" describes a family of toxic secondary metabolites produced by moulds. Studies estimate that mycotoxins affect more than 25% of the world's food, and the issues caused by these contaminants is extremely important for livestock as well.

Animals fed with feed containing mycotoxins not only suffer but trigger a domino-effect resulting in great economic losses across the whole livestock industry. These compounds have reportedly been associated with various human and animal diseases and are a well-established threat to grains and other commodities.

Mycotoxins concern not only grains, coffee, cocoa, wine and spices, but are also relevant to the dairy industry, in particular for the presence of aflatoxin M1. Furthermore, concern has been growing since new toxins and isoforms, namely masked mycotoxins, were discovered in recent years.

Screening Solutions

ELISA Kits



Eurofins Technologies provides a comprehensive portfolio of ELISA test kits to suit all needs for the reliable and effective **mycotoxin analysis in cereals, feed, spices and nuts**, as well as its internationally renowned ELISA kits for aflatoxin M1 in **milk and dairy products**. The kits are suitable to be run on automatic platforms and **have been validated for implementation on the Bolt™ ELISA analyzer**.

Immunoaffinity Columns



An extensive portfolio of mycotoxin immunoaffinity columns is available for the majority of regulated substances. The **SENSIColumn IACs are simple and reliable sample purification solutions**. Both specific and multi-analyte 'combi' columns are available **wide range of applications to various matrices**.

I'screen Quantitative ELISA Test Kits



High sensitivity, selectivity, accuracy and precision are the key features of the I'screen test kits. The quantitative immunoassay **I'screen AFLA M1 milk** has been granted **AOAC Research Institute Performance Tested MethodsSM** status (AOAC Certificate No. 072002) for the analysis of **aflatoxin M1 in raw bovine whole milk, skimmed milk and powdered milk**. The first version of the kit was launched 20 years ago and has a strong track record, having been successfully adopted by several dairy industries, laboratories and official control bodies, thanks to its reliability and suitability for instrumental methods. The assay is also compliant with the **ISO 14675:2003 (IDF 186:2003) guideline**.



Product Name	Target	Article Number	Applications	Assay time	LOD
I'screen AFLA M1 Milk AOAC approved	Aflatoxin M1	96 det. cod. HU0040001 48 det. cod. HU0040021 192 det. cod. HU0040041	Raw whole milk Skim milk Powdered milk	75 minutes	0.005 ppb
I'screen AFLA M1	Aflatoxin M1	96 det. cod. HU0040002 192 det. cod. HU0040042	Raw whole milk, Skim milk, Powdered milk, Pasteurized milk, UHT milk, Cheese, Firm Cheese, Yoghurt, Mozzarella cheese	75 minutes	0.005 ppb
I'screen AFLA	Aflatoxin B and G	96 det. cod. HU0040019 48 det. cod. HU0040039	Cereals, spices, dried fruits, nuts	50 minutes	0.5-1.25 ppb

B ZERO[®] Quantitative ELISA Test Kits



B ZERO[®] ELISA kits are fast, sensitive, reliable **test kits with One Single Calibrator** to be run per session. The quantitative results are obtained by means of a virtual master-curve that is set for each batch by the producer and allows accurate and precise results throughout the kit's whole shelf-life. The fact that physical standards do not need to be run each session allows dramatic savings and makes this line **the most cost-efficient option for mycotoxins testing**.

Product Name	Target	Article Number	Sample preparation	Assay time	LOD
B ZERO [®] AFLA B1	Aflatoxin B1	96 det. cod. HU0040005 48 det. cod. HU0040025	Methanol-water	15 minutes	1 ppb
B ZERO [®] DON v2	Deoxynivalenol	96 det. cod. HU0040008 48 det. cod. HU0040028	Methanol-water	20 minutes	40-120 ppb
B ZERO [®] H2DON	Deoxynivalenol	96 det. cod. HU0040018 48 det. cod. HU0040038	Water	20 minutes	200 ppb
B ZERO [®] ZEA	Zearalenone	48 det. cod. HU0040027	Methanol-water	20 minutes	10 ppb
B ZERO [®] FUM0	Fumonisin	48 det. cod. HU0040034	Methanol-water	20 minutes	750 ppb
B ZERO [®] OCHRA	Ochratoxin A	48 det. cod. HU0040035 24 det. cod. HU0040095	Methanol-water	20 minutes	2 ppb
B ZERO [®] T2	T2 and HT2 toxins	48 det. cod. HU0040036 24 det. cod. HU0040096	Methanol-water	20 minutes	25 ppb
B ZERO [®] AFLA M1	Aflatoxin M1	96 det. cod. HU0040003 48 det. cod. HU0040023 192 det. cod. HU0040043	None	30 minutes	0.01 ppb
B ZERO [®] AFLA M1 500	Aflatoxin M1	96 det. cod. HU0040091	None	30 minutes	0.025 ppb

Celer® Quantitative ELISA Test Kits



The BOLT™

Celer® is a harmonised platform of rapid, reliable, accurate and sensitive test kits with a common sample preparation that enables smart and flexible organisation, including for multi-mycotoxins analysis. The kits are easy to use and support the analyst reliably each session.

Despite their speed, **the assays can also be run by automatic analysers and have been validated for the BOLT™**, a compact, user-friendly ELISA robot that can host up to 4 Celer sessions in parallel.



Fully-automated
1-plate ELISA Analyzer

Product Name	Target	Article Number	Sample preparation	Assay time	LOD
Celer® AFLA B1	Aflatoxin B1	96 det. cod. HU0040004 192 det. cod. HU0040044	Methanol-water	15 minutes	1 ppb
Celer® AFLA	Total B and G Aflatoxins	96 det. cod. HU0040011 48 det. cod. HU0040031 192 det. cod. HU0040051	Methanol-water	15 minutes	2 ppb
Celer® DON v3	Deoxynivalenol	96 det. cod. HU0040009 48 det. cod. HU0040029 192 det. cod. HU0040049	Methanol-water	20 minutes	40-120 ppb
Celer® ZEA	Zearalenone	96 det. cod. HU0040006 48 det. cod. HU0040026 192 det. cod. HU0040046	Methanol-water	20 minutes	10 ppb
Celer® FUMO	Fumonisin	96 det. cod. HU0040012 48 det. cod. HU0040032 192 det. cod. HU0040052	Methanol-water	20 minutes	750 ppb
Celer® OCHRA	Ochratoxin A	96 det. cod. HU0040013 48 det. cod. HU0040033 192 det. cod. HU0040063	Methanol-water	20 minutes	2 ppb
Celer® T2	T2 and HT2 toxins	96 det. cod. HU0040010 48 det. cod. HU0040030 192 det. cod. HU0040050	Methanol-water	20 minutes	25 ppb
Celer® AFLA M1 500	Aflatoxin M1	96 det. cod. HU0040081	None	30 minutes	0.025 ppb

Solvent-free Quantitative ELISA Test Kits



One single methanol-water extraction is an advantage for multiple mycotoxins analysis, but is useless if risk management focuses on only one or a few molecules. The novel H2Myco line is a solvent-free option for a wide range of matrices.

Product Name	Target	Article Number	Sample preparation	Assay time	LOD
H2AFLA NEW!	Total B and G Aflatoxins	96 det. cod. HU0040055 48 det. cod. HU0040054 192 det. cod. HU0040056	Buffer	10 minutes	2.5 ppb
H2DON	Deoxynivalenol	96 det. cod. HU0040017 48 det. cod. HU0040037	Water	20 minutes	200 ppb

SENSI*Column* Immunoaffinity Columns



Product Name	Article Number	Product Description
SENSI <i>Column</i> IAC Aflatoxin total	EFAF3105	Immunoaffinity columns that retain total aflatoxin
SENSI <i>Column</i> IAC Aflatoxin M1	EFAFM3115	Immunoaffinity columns that retain aflatoxin M1
SENSI <i>Column</i> IAC Ochratoxin	EFOT3125	Clean-up of commodity extracts of food and feed samples containing ochratoxin A/B
SENSI <i>Column</i> IAC Ochratoxin SMART	EFOTS3125	Specially designed low cost immunoaffinity column with reduces loding capacity for ochratoxin purification
SENSI <i>Column</i> IAC Zearalenone	EFZE3155	Immunoaffinity columns that retain zearalenone and separate it from the other substances present in the sample
SENSI <i>Column</i> IAC Zearalenone SMART	EFZES3155	Specially designed low cost immunoaffinity column with reduces loding capacity for zearalenone purification
SENSI <i>Column</i> IAC Deoxynivalenol	EFD03135	Immunoaffinity columns that retain deoxynivalenol and separate it from the other substances present in the sample
SENSI <i>Column</i> IAC Fumonisin	EFFU3145	Immunoaffinity columns that retain fumonisins and separate them from the other substances present in the sample
SENSI <i>Column</i> IAC T2/HT2	EFTE3165	Immunoaffinity columns that retain T2 toxin and separate it from the other substances present in the sample
SENSI <i>Column</i> IAC Combi Afla+Ochra	EFCA3215	Clean-up of commodity extracts of food and feed samples containing aflatoxins and ochratoxins
SENSI <i>Column</i> IAC Combi Afla+Ochra+Zeara	EFCZ3225	Clean-up commodity extracts of food and feed samples containing aflatoxins, ochratoxins and zearalenone
SENSI <i>Column</i> IAC Combi Deoxynivalenol+ Zearalenone	EFCD3235	Clean-up of commodity extracts of food and feed samples containing deoxynivalenol and zearalenone
SENSI <i>Column</i> IAC Combi AOZDFT all in one for LC-MS/MS	EFCM3265	Simultaneous extraction of aflatoxins, ochratoxins, zearalenone, deoxynivalenol, fuminisins and T2-Toxin in food and feed stuffs
SENSI <i>Column</i> IAC Ergot Alkaloids	EFLS3275	Clean-up of commodity extracts of food and feed samples containing 12 priority ergot alkaloids

Key Benefits of the IACs

- Excellent flow behaviour
- Highly specific purification with monoclonal antibodies
- Availability of specific columns and 'combi' columns for mycotoxin groups
- Wide range of application for various matrices
- Multi-analyte IACs for LC-MS/MS application
- Long shelf-life
- Fast (15-30 mins)

