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Immunoaffinity and further Clean-up Columns

Multi-Mycotoxin SPE-Column CrossTOX

Multi-Mycotoxin Column CrossTOX®

MYCOTOXINS



Original size

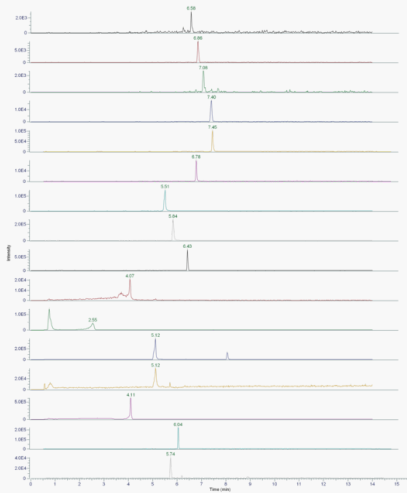
17 Mycotoxins at One Go

The CrossTOX® columns allow a highly efficient sample clean-up of regulated and expected mycotoxins.

At the same time they improve the conventional dilute-and-shoot application by a QuEChERS based process.

All in one

The following 17 mycotoxins have already been successfully tested with the CrossTOX® columns:



Detailed view

*Regulated mycotoxins are marked in **bold**

- Aflatoxins B1, B2, G1, G2
- Ochratoxin A
- Zearalenone
- Deoxynivalenol
- Fumonisin B1, B2
- T-2
- HT-2
- Nivalenol
- 3-Acetyl-DON
- 15-Acetyl-DON
- DON-3Glc
- Sterigmatocystin
- Citrinin

Field of application and functionality

A specially adapted sorbent guarantees high depletion even with difficult matrices. With CrossTOX® grain-based matrices as well as nuts, dried fruits and spices can be processed with excellent results ([overview of tested matrices](#)). The loading capacity is 3 mL (corresponds to 0.6 g matrix).



Clean-up via CrossTOX[®] is performed either manually or automatically with a robotic system FREESTYLE SPE or, if desired, fully automated in combination with an HPLC Direct-Injection Module.

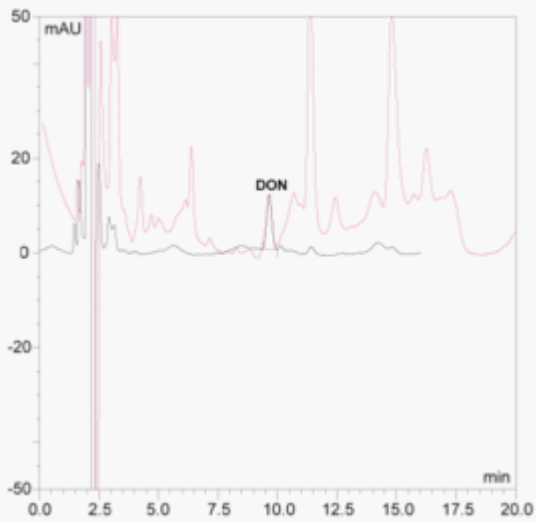
After extraction, centrifugation (optional) and application of the extract to the column, the cleaned sample can be measured with an LC-MS/MS system. Depending on the matrix, the majority of the analytes are measured without internal standards and with excellent recoveries. The reduction of internal standards and the purity of the sample saves a lot of costs per sample as well as maintenance costs (LC-MS/MS).

Quality is important to us!

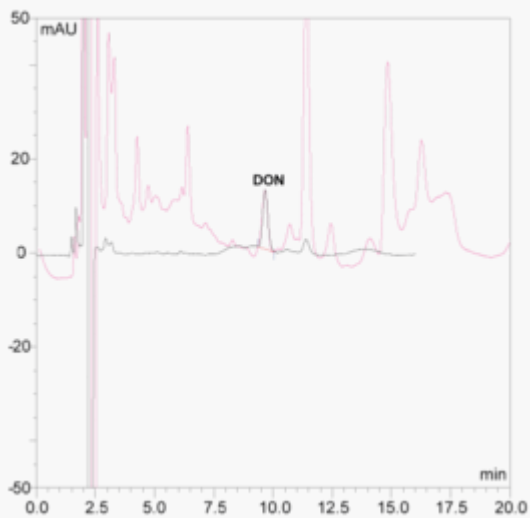
All materials are intensively tested throughout the entire production process with regard to their suitability and quality. LCTech meets the high level of European and international legal regulations in mycotoxin analysis. A comprehensive quality certificate is enclosed with each package.

Chromatograms

Below are exemplary chromatograms that illustrate the matrix reduction and thus represent the purity of the sample through the CrossTOX[®] columns:



Pink: Rice via Dilute-and-Shoot (Syringe Filtration) Black: Rice via CrossTOX®
Columns



Pink: Wheat via Dilute-and-Shoot (Syringe Filtration) Black: Wheat via CrossTOX®
Columns

Your advantages at a glance

- High purity of the extracts due to LCTech own sorbent for high matrix reduction; no separate filtration
- Significantly less internal standard required due to special affinity mechanism of the columns
- Less cleaning and maintenance of your LC-MS/MS system due to high purity of the extracts
- Only one column for all matrices
- Suitable for manual (syringe) and automated processing (FREESTYLE)

	Dilute-and-Shoot	CrossTOX® Manual processing	CrossTOX® Automated processing with FREESTYLE
Extraction ▶	● 30 - 90 minutes	● Only 5 -10 minutes	● Only 5 -10 minutes
Internal standard ▶	● For all toxins needed	● Almost none	● Almost none
Dilution of extract ▶	● Necessary	● No	● No
Filtration ▶	● Physical	● Physical and chemical	● Physical and chemical
Dispensing ▶	● In vial	● In vial	● Direct injection LC-MS/MS or in vial
Matrix reduction ▶	● Low	● High	● High
LC-MS/MS maintenance ▶	● Regular / weekly	● Significant reduced downtime	● Significant reduced downtime
Process time / Man power ▶	● Heavy workload	● Simplified	● Automated process

Your advantages compared to the conventional Dilute-and-Shoot procedure

Please contact us

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Overview of tested matrices

[Here is an overview of all tested matrices and their recoveries](#)

Applikation Note

[Multi-Mycotoxin Analysis
CrossTOX® - Sample Clean-up and
Matrix Removal \(pdf | 1 MB \)](#)

Flyer

[CrossTOX Flyer \(pdf | 1,014 KB \)](#)

Video

[Take a look at our latest video
on YouTube](#)

Automated processing

[Automated processing
with FREESTYLE SPE](#)

Fully automated processing

[FREESTYLE HPLC Direct
Injection Module for full
automation](#)

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