

Trade fairs cancelled. And now? LCTech presents its product news.

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Products

Immunoaffinity columns and consumables

Aflatoxins M1

AflaCLEAN M1 SMART

AflaCLEAN M1 SMART

Mycotoxins



Small + Fast + Economical = SMART

The AflaCLEAN M1 SMART columns are available in a small 3 cm polypropylene format, which has significant handling and storage advantages over larger columns.

Advantages at a Glance

- 1 mL and 3 mL format (AflaCLEAN M1 Select)
- Shelf life: 9 months cooled at 4 to 8 °C
- Loading capacity: 100 ng aflatoxin M1
- Recovery rates: aflatoxin M1 > 90 %
- Suitable for automated processing

Functionality of the Columns

The column bed consists of a soft-gel, which is covered by a storage buffer. The storage buffer contains a preservative. Maximum loading capacity of the columns is 100 ng aflatoxin M1. The minimum shelf life is 9 months at a storage temperature of 4 °C. Clean-up with AflaCLEAN M1 SMART can be done either manually or automatically with the robotic system [FREESTYLE ThermELUTE™](#).

Reduced solvent consumption, fast sample handling

The AflaCLEAN M1 SMART immunoaffinity columns for aflatoxin M1 convince not only by their small size and low price, but also through reduced solvent usage, shorter processing time and very good recovery rates. These are suited for clean-up of samples for subsequent analysis. With a loading capacity of 100 ng M1, they are AOAC compliant.

With their use in extraction, dilution, rinsing, sample loading and elution, more than 80 % of the solvents can be saved. Processing time is also reduced in key steps of the clean-up procedure when using AflaCLEAN M1 SMART. For example, emptying of the column is not necessary and sample loading and washing of the column only takes 14 minutes at the most with a 10 mL sample volume and a flow rate of 1 mL/min. Since a maximum of only 400 µL are used for elution, processing time will be reduced even further.

Quality is important to us!

Since the antibodies as well as the immunoaffinity columns are produced by LCTech, numerous in-house quality tests over the whole production process guarantee a persistent quality. LCTech meets the high demands of European and international legal requirements concerning mycotoxin analysis and controls every single production step. A detailed quality certificate is included in each pack.

Recovery Rates

Exemplary recovery rates of aflatoxin M1 in different matrices, cleaned-up with LCTech's immunoaffinity columns AflaCLEAN M1 SMART, are shown in the following. The samples are spiked with 80 ppt aflatoxin M1. The results correspond to the performance specifications of EC 401 / 2006 (Section 4.3.1):

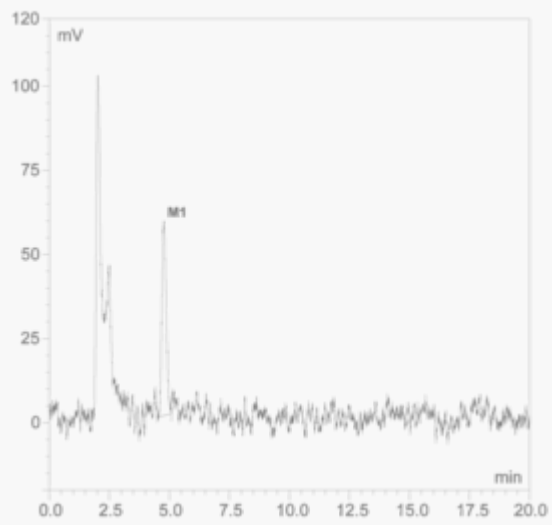
Matrix	Aflatoxin M1
Milk	96
Raw Milk	90
Milk Powder	98



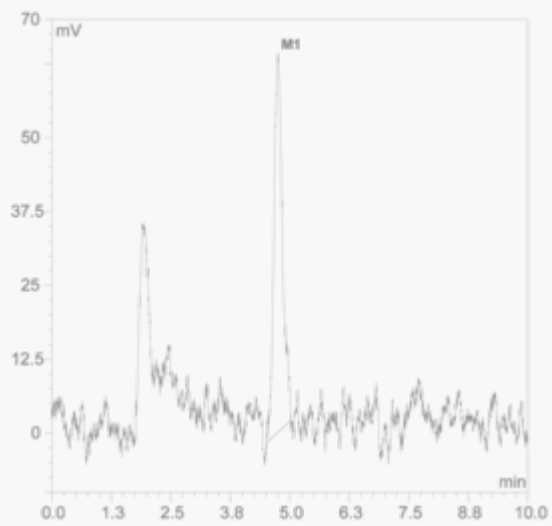
Chromatograms

In the following some exemplary chromatograms are shown, which were obtained by using AflaCLEAN M1

SMART columns:



Raw milk, spiked with 0.8 ng aflatoxin M1



Milk powder, spiked with 0.8 ng aflatoxin M1

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More SMART columns

[AflaCLEAN SMART](#)

[OtaCLEAN SMART](#)

[ZeaCLEAN SMART](#)

FREESTYLE ThermELUTE™

[Read more about fully automated processing via the robotic system FREESTYLE ThermELUTE™](#)

Video

[Watch our FREESTYLE ThermELUTE™ video](#)

Brochures

[Brochure mycotoxins \(pdf | 3 MB \)](#)

Poster presentation

[Fully automated mycotoxin analysis from extract to chromatogram \(pdf | 1 MB \)](#)

[Matrix of the month](#)

[AflaCLEAN M1 SMART in our
matrix of the month](#)

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