

# AflaCLEAN™

## Aflatoxin-Analysis Sample Preparation and Analytical Tools

The new LCTech immunoaffinity column AflaCLEAN™ was developed for the sample preparation of foods for the aflatoxin analysis using HPLC. With a maximum loading capacity of 100 ng aflatoxin B1 and a selectivity against aflatoxins B1, B2, G1 and G2 nothing is left to be desired for. AflaCLEAN™ columns are available in the practical 3 mL polypropylene format.

In many accredited laboratories, these columns are successfully employed worldwide for the most diverse matrices such as cereals, nuts and spices. Additionally, their very high ranking in interlaboratory tests (e.g. FAPAS 2006; aflatoxins in pistachios) underlines their high standard.

In order to meet quality demands of European and international directives on a consistently high level, all production steps are closely controlled.

A comprehensive quality certificate is distributed with every package.



### Aflatoxin Standard:

Aflatoxin B1, B2, G1 and G2 in acetonitrile (5 mL). The concentrations are approx. 2 mg/mL for B1 and G1 and 0.5 mg/mL for B2 and G2. The exact values are stated in the analysis certificate. This certificate was produced in compliance with the following guidelines: ISO Guide 31, ISO Guide 35 and Eurachem/CITAG Guide.

**Quality Control Certificate**

Product: AflaCLEAN™  
Product no.: 10014  
Lot no.: 103  
Expiry Date: 2007-06-28 (YYYY-MM-DD)  
Storage recommendations: below 30 °C (86 °F) and do not freeze.

Quality Control Release Inspection and Test Specification

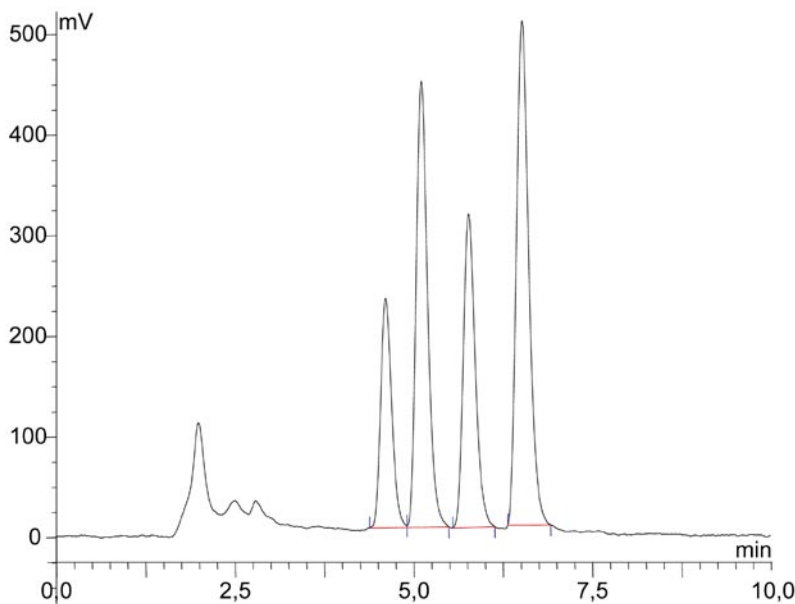
Test procedure: Total aflatoxin challenge test, 20 ng total aflatoxin spiked PBS containing 10 % v/v methanol was used, findings were performed as described in the cleanup procedures. The recovery was analysed according to QC-test procedures.

Results:	Aflatoxin B1	100 %
	Aflatoxin B2	100 %
	Aflatoxin G1	93 %
	Aflatoxin G2	78 %

This is to certify that AflaCLEAN™ batch 103 fulfills the requirements of the AOAC official method 999.07, passed the required test specifications and is released for sale.

*Prof. Dr. J. P. ...*  
Head of Laboratory

LCTech-Gesellschaft für Chromatographie und Automatisierung mbH  
postal address: P.O. Box 1500, 54823 Dorfen, Germany  
Tel.: 0240-620081-0200-0 Fax: 0240-024  
E-Mail: info@LCTech.de Web: www.LCTech.de



Chili spiked with 5 ppb aflatoxin

# HPLC Columns

The LCTech HPLC column with pre-column for aflatoxin analysis was specifically certified by LCTech for this field of application. With this column you can expect a consistently good performance, i.e. short retention times (B1 in less than 8 min) and base-line separation of the peaks can be achieved simultaneously. This column can be acquired at low cost.

## Simple and Inexpensive

### UV-Photochemical Reactor UVE™ for Utilization with every HPLC

A canny and inexpensive Aflatoxin Derivatizer – a clever and simple alternative for electrochemical bromination! Please ask for more information!



### Ordering Information

**Immunoaffinity column AflaCLEAN™**  
(25 columns/Box); with batch certificate  
Part No. 10514

**Sample reservoir 120 mL;** DURAN® glass, labwasher-proof; reusable, includes screw cap and seals  
Part No. 10896

**Clamp; 3 fingers with rubber**  
(for usage with reservoir)  
Part No. 10081

**HPLC analytical column;** RP, 4.6 x 150 mm  
Part No. 10522

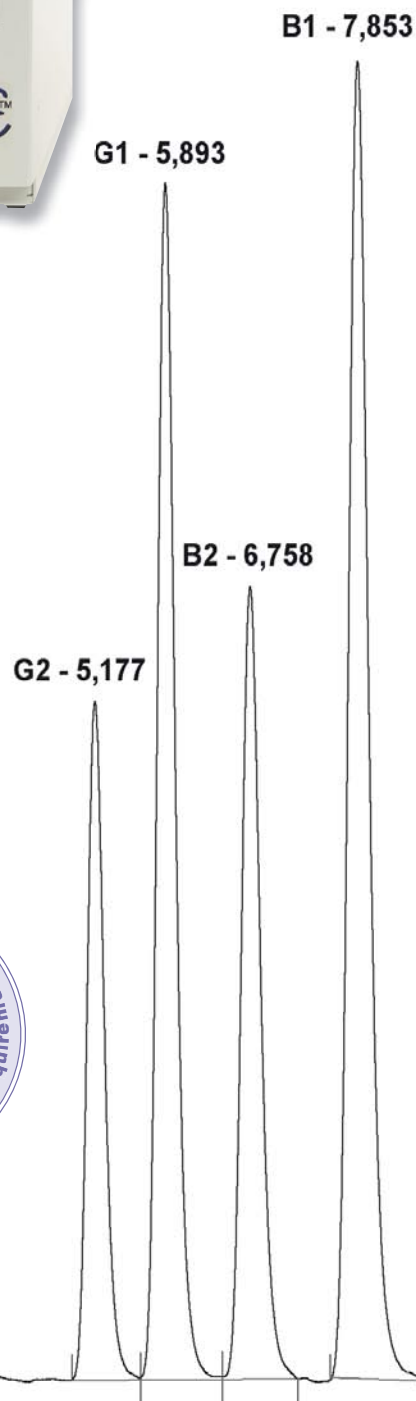
**Guard cartridge** (3 pieces/package)  
Part No. 10523

**Guard cartridge holder**  
Part No. 10750

**UVE™- Photochemical reactor**  
ready to use, CE-certification, 240 V  
Part No. 10519

**UVE™- Photochemical reactor;** ready to use,  
CE-certification, 90-126 VAC, 50/60 Hz  
Part No. 10742

**Aflatoxin standard B1, B2, G1, G2; certified**  
Part No. 10837



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