# **Pollutants in Cannabis** Sample preparation à la LCTech

LCTech

LCTech helps analytical laboratories expand their testing capabilities for cannabis and cannabis-containing products for mycotoxins and pesticides with exceptional clean-up columns that can be easily automated:

## **Mycotoxin - Analysis**

Immunoaffinity columns such as the Afla-OtaCLEAN columns for both regulated mycotoxins at once

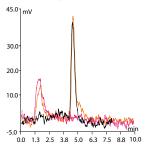
- Afla-OtaCLEAN for simultaneous clean-up for aflatoxins B/G and ochratoxins
- Save time & money
- Best results in international round robin tests
- Miniaturized variant available
- Recovery rates show exceptional results for the toxins

# Chromatogram aflatoxin B/G 200.000<sub>1counts</sub> 150.000 100,000

■ Standard 4 ng / 2 mL represents 20 ppb

■ Hemp blind with Afla- OtaCLEAN

#### Chromatogram ochratoxin A 45.0<sub>1 mV</sub>



■ Hemp 20 ppb with Afla- OtaCLEAN ■ Hemp 20 ppb with AflaCLEAN Select

#### CrossTOX® columns - 17 mycotoxins in one go for LC-MS/MS-based analysis

- Reduced background noise during analysis
- Very good peak identification of Aflatoxins and others
- A higher sensitivity is achievable due to minimised matrix effects after concentration
- Significant reduction of LC-MS/MS down-times
- ☑ No internal standard necessary for the majority of toxins

PESTICIDE CLEAN-UP ON NEXT PAGE



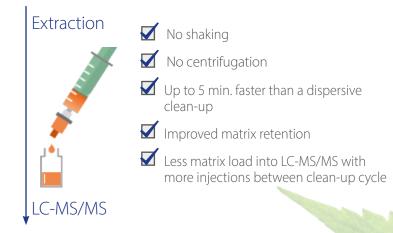


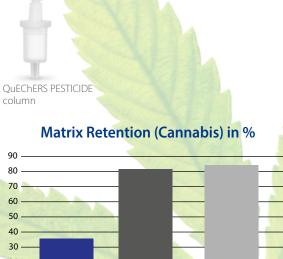


## **Pesticide - Analysis**

600 - 750 nm

## Non-dispersive QuEChERS application for pesticide analysis in cannabis





■ 400 - 550 nm





## Automate your cannabis clean-up with the **FREESTYLE** robotic system

200 - 800 nm

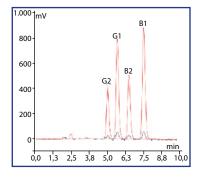
## **Highest Sensitivity Through Automation**

Full automation using the SMART columns in the FREESTYLE ThermELUTE™ enables not only a higher sample throughput but also the highest analytical sensitivity, since the eluate is quantitatively transferred into the HPLC system.

✓ Increase your sample throughput

Achieve reliable, reproducible results

Increase your analytical sensitivity by a factor of 14



Chromatogram: Sensitivity gain by a factor of 14 on a 3 mL column ■ Manual Clean-up ■ Automated with FREESTYLE ThemELUTE™



