

Determination of Aflatoxins and Mycotoxins with photochemical post column derivatization

Method
HPLC

RP Mode
VFD0141J

Column: Eurospher II 100-3 C18, 250 x 4 mm ID

Order No. 25CE181E2G

Phase: Eurospher II 100-3 C18

Conditions:

Eluent: A: Water
B: Acetonitrile

Gradient: 0.0 – 6.0 min 40 % B
6.0 – 6.5 min 40 – 80 % B
6.5 – 10.0 min 80 – 90 % B
10.0 – 11.0 min 90 % B

Flow rate: 1.5 ml/min

Temperature: 40 °C

Volume: 5 µl (10 µl sample loop)

Detection: Fluorescence RF-20AXs, 5 Hz, 0.1 s, Sensitivity: High, Gain x16
Postcolumn derivatization with photoreactor without the need of any additional chemicals

Substances: Aflatoxin G2, Aflatoxin G1, Aflatoxin B2, Aflatoxin B1, Ochratoxin A (OTA), Zearalenone (ZON)

Keywords: Aflatoxins, Mycotoxins, Food analysis, Food safety, photochemical postcolumn derivatization

Chromatogram:

1. OTA
2. Aflatoxin G2
3. Aflatoxin G1
4. Aflatoxin B2
5. Aflatoxin B1
6. ZON

