

Ochratoxin A

Determination of Ochratoxin A using Capillary Electrophoresis and Laser Induced Fluorescence Detection

Instruments:

Capillary Electrophoresis: Agilent CE
Detector: Picometrics ZETALIF 2000 detector
Laser: He-Cd laser, 325 nm, 15 mW

Sample:

Ochratoxin A from Sigma Cy, ref O 1877, dissolved in methanol (1 mg/mL), then diluted in water

Reagents:

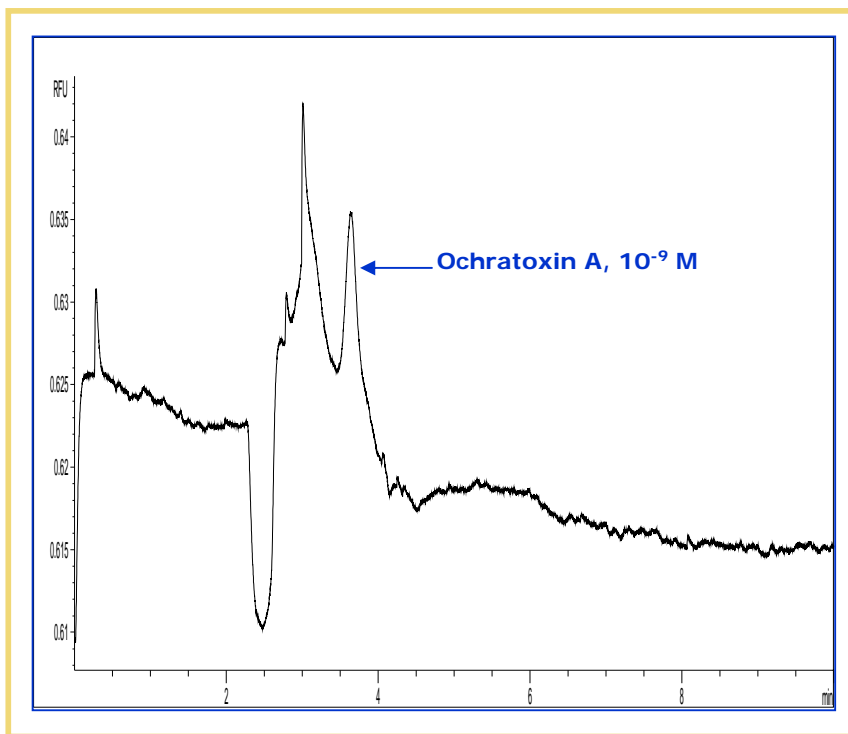
None (Naturally fluorescent compounds)

Methods:

Capillary: 75 μ m ID, 66 cm length (42 cm effective length)
Buffer: 50 mM Boric Acid pH 10.5 (adjusted with NaOH 0.1 N)
Voltage: +25 kV
Injection: 30 seconds at 50 mBar

Limit of Detection*:
 1×10^{-10} M

* Estimated for a S/N of 3



Source: Picometrics application lab.