

Innovations in Mycotoxin Analysis



aokin's rapid kinetic assay technology quickly determines the concentration of an unknown impurity by measuring the speed of binding between it and an antibody.

The binding reaction occurs in solution. The speed of polarisation changes are used to determine the concentration of the impurity.



advantages:

- *rapid processing*
- *quantitative results*
- *low variance*
- *high reproducibility*
- *high precision*
- *thermally stable*
- *dust proof*

aokin mycontrol provides a complete analytical system consisting of sample preparation, assay kits, instrumentation and software. The system has been specifically designed for quality control in the food industry.

aokin mycontrol is suitable for both routine quality control and for spot sample testing.

aokin mycontrol ZON – analytical kit for the quantification of zearalenone

aokin mycontrol DON – analytical kit for the quantification of deoxinivalenol

aokin mycontrol Afla – analytical kit for the quantification of aflatoxins

aokin mycontrol OTA – analytical kit for the quantification of Ochratoxin

aokin spectrometer FP 470 – fluorescence polarimeter

aokin mycontrol 1.0 – user-interface software



rapid kinetic assay – fast, quantitative and reliable

aokin's rapid kinetic assays are quick and easy. Each analysis, including sample preparation, is completed within **15 to 20 minutes**. Extensive scientific training is not required.



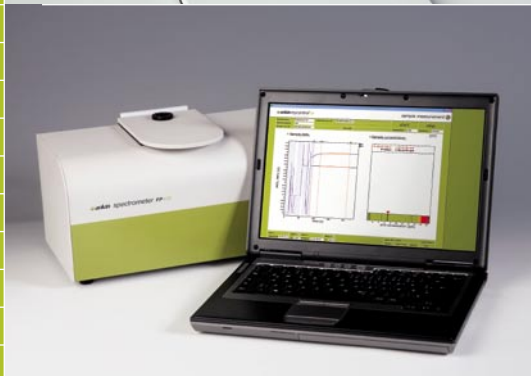
1. sample preparation:

extraction and preparation follows a simple and standardized protocol



2. measurement:

simply start the *aokin spectrometer* and add reagents and the sample to be analysed



3. analysis:

software-driven automatic concentration determination allows quick user-friendly data analysis

aokin's rapid kinetic assay: the accuracy and reliability of HPLC, made fast and cost-efficient.

characteristics of the *aokin* system:

- direct detection without the need to concentrate the sample (detection limits down to 0.1 ppb)
- reliable results with high reproducibility (variance < 10%)
- optimized for rapid analysis of single samples
- completion of an assay within 15 – 20 minutes
- advanced sample preparation for a wide variety of cereals and other matrices
- flexible software allows advanced users to develop customized protocols



aokin AG
 Robert-Rössle-Str. 10
 13125 Berlin
 Germany

Tel. +49 30 94 89 21 60
 Fax +49 30 94 89 21 61
 info@aokin.com



aokin mycontrol ZON

Complete kit for sample preparation, extraction and analysis of zeralenone in wheat. Includes extraction solvents and spin columns. Limit of detection: 1 ppb

content: 5 analysis

order number: MY-0705

aokin mycontrol DON

Complete kit for sample preparation, extraction, and analysis of deoxynivalenol in wheat. Includes extraction solvents and spin columns. Limit of detection: 10 ppb

content: 5 analysis

order number: MY-0708



aokin spectrometer FP470

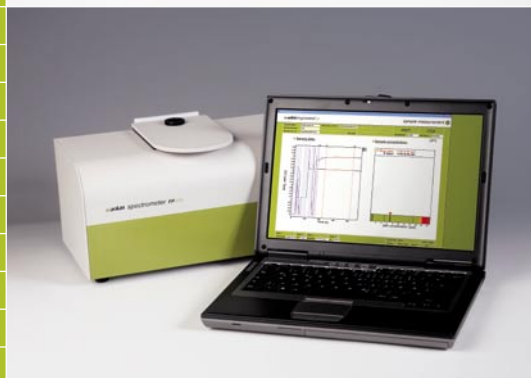
Fluorescence polarimeter, with temperature control and magnetic stirrer

excitation at 470 nm
 detection at 520 nm
 accuracy: 1mP (at 1 nM Fluorescein)

voltage:
 100 - 240 V

dimensions:
 width 366 mm
 height 190 mm
 depth 220 mm

order number: SP-0701



aokin mycontrol 1.0

User-interface software for **aokin spectrometer FP470** control and automated data analysis

Windows XP
 Windows 2000
 USB port connection

order number: MY-0703