



**Bringing Scientific and Technical
Resources to the African Continent**

CHROMATOGRAPHY & BIOASSAY DETECTION TECHNIQUES FOR MYCOTOXIN AND SAFETY IN FOOD CHAIN (5 Days)

Introduction:

Enzyme-Linked ImmunoSorbent Assay (ELISA) is an antibody-based assay that is commonly used to detect mycotoxins. A number of commercial ELISA kits are available for aflatoxins, deoxynivalenol, fumonisins, ochratoxins, and zearalenone.

Who should attend?

Quality Assurance Quality Controllers, Laboratory Technologists/Scientists, Instrumentation Technologists, Equipment Engineers, Technicians, other users of laboratory equipment.

What are the benefits?

This course will help you to get an in-depth knowledge on mycotoxin in food - sample preparations, extraction, clean up, Chromatography determination Chromatography & Bioassay Operating conditions, Analysis; Identification, and calibration graph, determination and calculation of results, Reproducibility, Precision & test report.

Contents; Introduction to the course.

- Overview on major toxigenic fungi and mycotoxins in plant disease, human, animal health effects, Risk assessments and Legislation.
- Prevention strategies, and HACCP plans for mycotoxin in food safety.
- Sampling methods for mycotoxin analysis.
- Mycotoxin analysis: an overview of various methodologies.
- Sample preparation, techniques.
- Sample clean up procedures and preparation of standards.
- Protocol for Deoxynivalenol analysis in maize, by HPLC and IAC clean up.
- Performance characteristics and Analytical method validation for mycotoxin analysis.
- Deoxynivalenol in maize, extraction, clean up and HPLC determination.
- Biomarkers of exposure to mycotoxin and other analytical methods.
- Laboratory Aflatoxins analysis, HPLC determination.
- LC/MS/MS for multi mycotoxin analysis.

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- Protocol for multi mycotoxin analysis by LC/MS/MS.
- Multi mycotoxin analysis in Maize, extraction, clean up and LC/MS/MS analysis. Interpretation, & Integration of HPLC/UHPC chromatogram's.
- Interpretation and Integration of LC/MS/MS chromatograms of multi mycotoxin in Maize.
- Mycotoxin detection in food and Feeds.
- Overview of Rapid methods;
- Analysis of aflatoxins and ochratoxins in cereals, groundnuts and wine – sample preparation, extraction, cleanup, by ELISA and kinetic FP determination.
- Protocol for Deoxynivalenol in Maize by Kinetic FP.
- Protocol for Deoxynivalenol in Maize by Elisa.
- Aflatoxins analysis, TLC determination.
- Protocol for TLC analysis of mycotoxin.
- Protocol for rapid immunoassay methods for mycotoxin detection, Strip test, Flourimetric test for total mycotoxin in Maize.
- Plenary presentation of results and discussion. Comparison of results from the different detection methods.
- Comparison of results from TLC HPLC, LCMS/MS and Rapid methods.

Course details

Date	Cost	Venue
8 th – 12 th October 2018 Reg. Deadline: 1 st October 2018	Kes. 55,680.00 or USD 696 (Vat. Inclusive)	University of Nairobi - Kabete Campus - NAIROBI

For reservation contact us on info@chromafrica.co.ke or call us +254 020 2594918