

## DERIVATISATION CELL

### AFLATOXINS ANALYSIS BY HPLC

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Some Aflatoxins are not fluorescent naturally. The confirmation, by HPLC notably, of aflatoxin presence in a sample, needs their derivatisation, particularly B1 and G1. This derivatisation helps to increase their natural fluorescence and makes their detection simple and sensitive. The FARLIB® LIBIOS Cell is an electrochemical cell which derivatises aflatoxins instantly from potassium bromide (KBr) present in the mobile phase. This derivatisation occurs quickly (reaction time  $\pm 4$  seconds), at ambient temperature, without water-bath and online.

LIBIOS ”



## Advantages

- Fast technique: 4 seconds
- No handling of halogenated solutions
- Easy installation / desinstallation
- No pump corrosion
- Very repeatable results
- Mobile phase is not modified despite of addition of KBr and nitric acid
- High increase of aflatoxins fluorescence activity
- No equipment or additional pumps
- More specific technique than resorting alternative methods notably TFA or iodination
- Derivatising agent included in the mobile phase
- Low maintenance costs

## MAINTENANCE / REPAIR OF YOUR CELL

- LIBIOS expertise for a fast repair with guaranteed results and without interruption of your analysis
- Loan of one FARLIB® LIBIOS Cell during the maintenance of your equipment
- Diagnostic of the parts to be changed, repaired and quote to validate before technical intervention

## LIBIOS provides you all spare parts and consumables for your electrochemical cell:

- KB-MEMB: spare membrane (Change recommendation: 1 to 2 years according to use)
- KB-CONKIT: connexion kit of the cell to HPLC system

Code	Description	Packaging
KB-CELL	FARLIB® LIBIOS Cell: electrochemical cell for bromine post-column derivatisation of B1, B2, G1 and G2 aflatoxins prior to HPLC-Fluorescence detector	1 cell + 1 electronical box + 1 additional membrane
KB-MAINTENANCE	Maintenance and repair of electrochemical cell	1 service
KB-MEMB	Spare membrane for electrochemical cell	1 unit
KB-CONKIT	Connexion kit of cell to HPLC	1 unit
KB-PORTOIR	Stand (positive pressure) for immunoaffinity and SPE columns	1 unit
VAC-12 POS	Vacuum manifold 12 positions for immunoaffinity and SPE columns	1 complete system (Vacuum pump not included)
V01B	Vacuum pump with teflon membrane for VAC-12 POS	1 unit
PF-AFBG-1 / PF-AFBG-3	Immunoaffinity columns for a selective purification of B1, B2, G1 and G2 aflatoxins prior to HPLC	10 / 25 / 50 columns (1 or 3 mL format)
PBS-100C	PBS buffer - Phosphate Buffer Saline	100 tablets
ADAP-IAC	Adapters for immunoaffinity and SPE columns	1 unit / 10 units
SER-EMB-25ML	Syringue + tip for barrel of 25 mL	1 unit



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