



## UV-Derivatization Module for Aflatoxin Analysis

The UVE™-derivatizer is a professionally designed device for the photochemical post-column derivatization of aflatoxins. The derivatization is performed in a special reactor loop with UV-light. Just as in the conventional post-column derivatization using iodine or bromine, aflatoxins B1 and G1 are transformed to stable fluorescent derivatives. Here, the water present in the HPLC-eluant is used as a reagent. Consequently, neither iodine nor HNO<sub>3</sub>/KBr are used. The results are clear peaks and a high derivatization performance.



The application is uncomplicated and performed with minimal effort: Simply fit UVE™ between HPLC and detector, switch on the equipment – done! The verification analysis of aflatoxins B1 and G1 can be elegantly conducted by switching off the reactor (on/off). No interference of iodine or bromine will occur through seepage! You couldn't wish for simpler handling and lower follow-up costs!

The small, handy device (CE-certified) was constructed with a robust steel housing to meet laboratory requirements. The well-priced UV-lamp can be easily exchanged. The reactor loop is made from special plastic with a high light transmission at 254 nm. Lamp and reactor loop are cooled, which significantly prolongs the service life of both components. Various safety devices protect both equipment and user.

The success achieved in interlaboratory trials and the acceptance of this device worldwide in accredited laboratories speaks for itself. The comparability of photochemical and electrochemical derivatization (Cobra-cell) was published by the DG Joint Research Centre of the European Commission in the Institute for Health and Consumer Protection. (Waltking et al., JAOAC 89 (3) p 678-92; Official Method 2005.08)

LCTech is pleased to send you the complete method. Simply send your request titled "Aflatoxin with UVE" via email to [mycotoxins@Lctech.de](mailto:mycotoxins@Lctech.de).

### Technical Data UVE™, CE-certified

UVC Lamp	254 nm
Reactor Coil	Special
Dimensions	145 x 100 x 280 mm (W x H x D)
Power Input	50 W
Weight	4 kg
Order No.	10519 (230 VAC - 50 Hz) 10742 (90-126 VAC - 50/60 Hz)

