CHROMATOGRAPHIC SPECIALTIES INC.

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Photochemical Derivatization

Perfect Aflatoxin Analysis at an Attractive Price

No sensible alternative.

Simpler, more robust and faster than any other comparable method for this kind of analysis.

Canny and proven

UVE™ is suitable for the photochemical post-column derivatization of aflatoxins.

The result is a distinctly enhanced signal for the important aflatoxins G1 and B1.

The method is accepted by the AOAC, is successfully employed in inter-laboratory trials and in accredited laboratories worldwide.

The alternative to Cobra-cell

Photochemical derivatization has advantages over electrochemical bromination. This was shown by Muscarella et al. (see pg. 13).

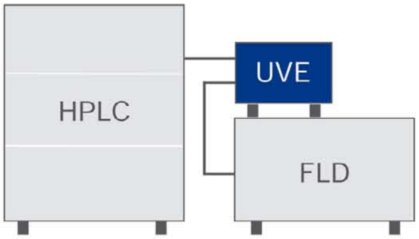
The big plus point in comparison: The water present is used as reagent. Neither iodine nor HNO_3/KBr are being used.

Advantages at a glance

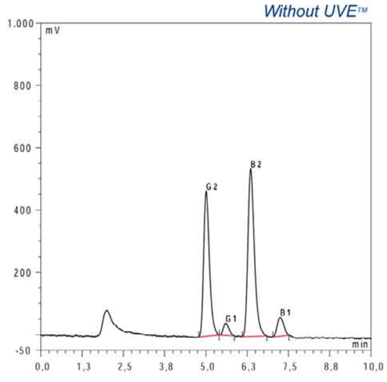
- ✓ No reagents neeeded
- ✓ Can be used together with any HPLC
- ✓ Components are designed to sustain operation of over several thousand hours.
- ✓ Simple confirmation analysis after switch-off of the reactor
- ✓ Multiple safety features
- ✓ No time-consuming rinsing after usage
- ✓ Inexpensive and low maintenance

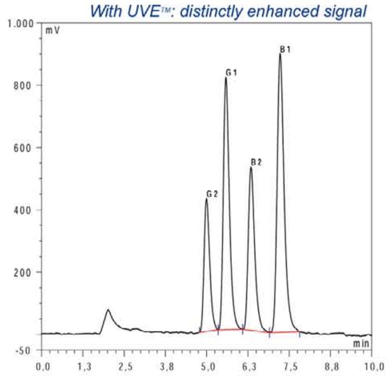
UVE™ is a small, handy device - 15 cm wide, 9 cm high, 27 cm deep.

Easiest installation: Connect with HPLC and detector, switch on, ready.



Ordering information	Product N°
UVE™ Photochemical reactor for the analysis of aflatoxins, 254 nm lamp	10519 (230 VAC) 10742 (90-126 VAC)


Without UVE™


With UVE™: distinctly enhanced signal

The derivatization of the aflatoxins B1 and G1 to stable fluorescent derivatives is performed with UV-light in a special reactor loop made from completely inert material.

Subsequent detection is conducted at 365 / 460 nm (FLD).

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