

DIN EN 17424:2021-03 (E)

Foodstuffs - Determination of aflatoxins in spices other than paprika by IAC clean-up and HPLC-FLD with post-column derivatization

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	5
5	Reagents	6
6	Apparatus and equipment	10
7	Procedure	11
7.1	Extraction of aflatoxins from the sample	11
7.2	Determination of recovery	12
7.3	IAC clean-up	12
7.4	HPLC-FLD analysis	12
7.4.1	General	12
7.4.2	Confirmation	12
7.4.3	Post-column derivatization	13
7.4.4	Identification	13
7.4.5	Calibration	13
8	Calculation	13
9	Precision	14
9.1	General	14
9.2	Repeatability	14
9.3	Reproducibility	15
10	Test report	16
Annex A(informative) Example conditions for suitable HPLC-FLD systems		17
A.1	General	17
A.2	Example HPLC Conditions	17
A.3	Other examples of suitable columns and mobile phase conditions	17
Annex B(informative) Typical chromatograms		19
Annex C(informative) Precision data		24
Annex D(informative) Supplementary information		27
Bibliography		31