

DIN EN 17641:2022-12 (E)

Foodstuffs - Multimethod for the determination of aflatoxins, deoxynivalenol, fumonisins, ochratoxin A, T-2 toxin, HT-2 toxin and zearalenone by LC-MS/MS

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principles	6
5	Reagents	6
6	Apparatus and equipment	12
7	Procedure	14
7.1	Preparation of the laboratory sample	14
7.2	Test portions weighing	14
7.2.1	Cereals, cereal-based products	14
7.2.2	Milk powders, nuts, spices, dried fruits	14
7.3	Spiking with ISTD solutions	14
7.4	Extraction	14
7.4.1	General procedure	14
7.4.2	Without IAC clean-up	15
7.4.3	With IAC clean-up	15
8	LC-MS/MS analysis	16
8.1	Operating conditions	16
8.2	Injection sequence	16
8.3	Data treatment	17
9	Calculations	17
9.1	Identification and confirmation	17
9.2	Calibration curve and measuring range	17
9.3	Calculations	18
10	Precision	19
10.1	General	19
10.2	Repeatability	19
10.3	Reproducibility	19
11	Test report	22
Annex A (informative) Precision data		23
Annex B (informative) Overview of the sample preparation		39
Annex C (informative) Example conditions for suitable LC-MS/MS systems		40
Bibliography		49