

DIN EN 17203:2019-03 (E)

Foodstuffs - Determination of citrinin in food by liquid chromatography tandem mass spectrometry (LC-MS/MS)

Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Principle	5
5 Reagents	5
6 Apparatus and equipment	8
7 Procedure	9
7.1 Preparation of the test sample	9
7.2 Extraction of citrinin	9
7.3 Spiking procedure	10
7.4 Preparation of sample test solutions	10
7.5 LC-MS/MS analysis	10
7.6 Identification	12
8 Calculation	12
8.1 General	12
8.2 Calculation with the internal standard citrinin (ISTD)	12
9 Precision	14
9.1 General	14
9.2 Repeatability	14
9.3 Reproducibility	14
10 Test report	15
Annex A (informative) Example conditions for suitable LC-MS/MS systems	16
A.1 Settings for chromatography for WATERS Acquity H-class coupled to a Xevo® TQ-S	16
A.2 Mass spectrometric detection settings	17
Annex B (informative) Typical chromatograms	18
Annex C (informative) Precision data	21
Bibliography	24