

DIN EN ISO 12228-1:2014-10 (E)

Determination of individual and total sterols contents - Gas chromatographic method - Part 1: Animal and vegetable fats and oils (ISO 12228-1:2014)

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	4
5	Reagents	5
6	Apparatus	6
7	Sample	6
7.1	Sampling	6
7.2	Preparation of the test sample	6
8	Procedure	7
8.1	Preparation of the aluminium oxide column	7
8.2	Test portion	7
8.3	Extraction of the unsaponifiable matter	7
8.4	Thin-layer chromatography	7
8.5	Isolation of the sterols	7
8.6	Preparation of sterol trimethylsilyl ethers	8
8.7	Gas chromatography	8
9	Expression of results	8
9.1	Identification of sterols	8
9.2	Composition of sterols	8
9.3	Determination of the total sterol content	9
10	Precision	10
10.1	Interlaboratory test	10
10.2	Repeatability limit, r	10
10.3	Reproducibility limit, R	10
11	Test report	10
Annex A (informative) Figures		11
Annex B (informative) Interlaboratory trial		18
Bibliography		26