### INTERNATIONAL STANDARD

## ISO 22935-3

IDF 99-3

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## Milk and milk products — Sensory analysis —

Part 3:

Guidance on a method for evaluation of compliance with product specifications for sensory properties by scoring

Lait et produits laitiers — Analyse sensorielle —

Partie 3: Lignes directrices pour une méthode d'évaluation de la conformité aux spécifications de produit pour les propriétés sensorielles par notation



Reference numbers ISO 22935-3:2009(E) IDF 99-3:2009(E)

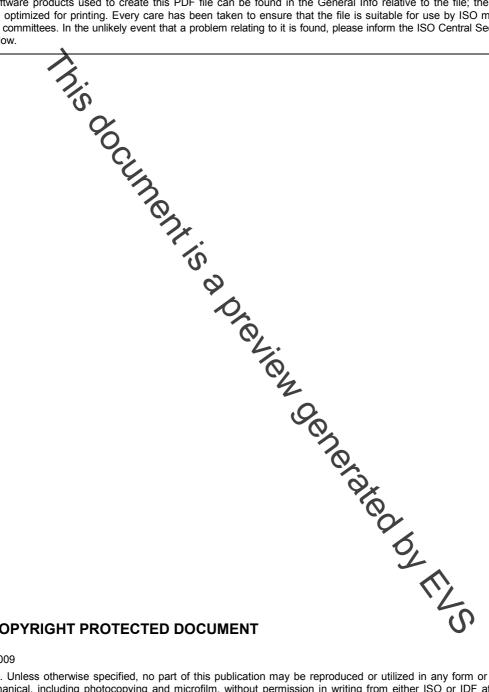
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### Foreword

**ISO (the International Organization for Standardization)** is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 22935-3 IDF 99-3 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF). It being published jointly by ISO and IDF.

ISO 22935 IDF 99 consists of the following parts, under the general title *Milk and milk products* — Sensory analysis:

- Part 1: General guidance for the recruitment, selection, training and monitoring of assessors
- Part 2: Recommended methods for sensory evaluation
- Part 3: Guidance on a method for evaluation of compliance with product specifications for sensory properties by scoring

### Foreword

**IDF (the International Dairy Federation)** is a non-profit organization representing the dairy sector worldwide. IDF membership comprises National Committees in every member country as well as regional dairy associations having signed a formal agreement on cooperation with IDF. All members of IDF have the right to be represented on the IDF Standing Committees carrying out the technical work. IDF collaborates with ISO in the development of standard methods of analysis and sampling for milk and milk products.

Draft International standards adopted by the Action Teams and Standing Committees are circulated to the National Committees for voting. Publication as an International Standard requires approval by at least 50 % of the IDF National Committees casting a vote.

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All work was carried out by the Join SO-IDF Action Team on *Statistics and sampling* of the Standing Committee on *Quality assurance, statistics f analytical data & sampling* under the aegis of its project leader: Mr. S. Solem (NO).

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This edition of ISO 22935-3 IDF 99-3, together with ISO 22935 IDF 99-1 and ISO 22935-2 IDF 99-2, cancels and replaces IDF 99C:1997, which has been technically revised



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### Milk and milk products — Sensory analysis —

### Part 3:

# Guidance on a method for evaluation of compliance with product specifications for sensory properties by scoring

### 1 Scope

This part of ISO 22935 IDF 99 gives guidance on a general method for evaluation of compliance with product specifications for sensory properties based on sensory scoring and the use of a common nomenclature of terms.

The method is especially applicable imprcess and quality control performed regularly on a larger number of samples and/or with some time pressure and/or with a limited number of expert assessors available.

The results from the method may be part of product classification systems for domestic and international trade. Classification systems are not covered by this part of ISO 22935 IDF 99.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4121, Sensory analysis — Guidelines for the use of quantitative response scales

ISO 5492, Sensory analysis — Vocabulary

ISO 5496, Sensory analysis — Methodology — Initiation and training of assessors in the detection and recognition of odours

ISO 6658, Sensory analysis — Methodology — General guidance

ISO 8586-1, Sensory analysis — General guidance for the selection, training and monitoring of assessors — Part 1: Selected assessors

ISO 8586-2, Sensory analysis — General guidance for the selection, training and monitoring of assessors — Part 2: Expert sensory assessors

ISO 8589, Sensory analysis — General guidance for the design of test rooms

ISO 13300-1, Sensory analysis — General guidance for the staff of a sensory evaluation laboratory — Part 1: Staff responsibilities

ISO 13300-2, Sensory analysis — General guidance for the staff of a sensory evaluation laboratory — Part 2: Recruitment and training of panel leaders

### ISO 22935-3:2009(E) IDF 99-3:2009(E)

ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories

ISO 22935-1 IDF 99-1, Milk and milk products — Sensory analysis — General guidance for the recruitment, selection, training and monitoring of assessors

ISO 22935-2 IDF 99-2, Milk and milk products — Sensory analysis — Recommended methods for sensory evaluation

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4121, ISO 5492, ISO 5496, ISO 6658, ISO 8586-1, ISO 8586-2, ISO 8589, ISO 22935-1 | IDF 99-1 and the following apply.

### 3.1

property

(sensory analysis of milk products overall appearance, consistency or odour/flavour of a sample

### 4 Principle

Sensory properties of individual samples of milk and milk products are analysed under standardized conditions by a panel of expert milk and milk product assessors. Each assessor evaluates the samples independently of the other assessors and uses a discrete five point interval scale to estimate the magnitude of a possible deviation in a product from a pre-established sensory product specification. When the score of each assessor is 3 or lower, then the score is supplemented by common terms which describe the character of the sensory deviation. The mean values of the panel, supplemented with the representative terms when the mean values are lower than 3,6, gives the result of the mean.

### 5 General test requirements

The method shall be used in conjunction with ISO 22935-1 | IDF 991 and ISO 22935-2 | IDF 99-2. Follow also the general guidance on the methodology of sensory analysis given in ISO 6658. When relevant, it is also recommended that the general requirements for the competence to carry out tests given in ISO/IEC 17025 with supplemental documents specific for sensory testing laboratories (when as EA-4/09<sup>[5]</sup>) be followed.

### 5.1 Test room

Conduct the sensory analysis in a special test room with standardized conditions which are monitored regularly when testing. See ISO 22935-2 IDF 99-2 and ISO 8589 for the characteristics of the room in which the tests are to be performed.

### 5.2 Assessors

Assessors shall be recruited, selected, trained and monitored to satisfy the criteria for expert milk and milk product assessors. See ISO 22935-1 | IDF 99-1, ISO 8586-1, ISO 8586-2, and ISO 5496 for general guidance.

### 5.3 Panel

The number of assessors in the panel shall be at least three. See also ISO 22935-1 IDF 99-1 for additional requirements for assessors in the panel and ISO 22935-2 IDF 99-2 for general guidelines for the preparation of a panel.

