



SLOVENSKI STANDARD
SIST EN ISO 13366-2:2007

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Mleko - Ugotavljanje števila somatskih celic - 2. del: Navodilo za uporabo fluoro-opto-elektronskih števec (ISO 13366-2:2006)

Milk - Enumeration of somatic cells - Part 2: Guidance on the operation of fluoro-opto-electronic counters (ISO 13366-2:2006)

Milch - Zählung somatischer Zellen - Teil 2: Leitfaden zum Betrieb fluoreszenzoptoelektronischer Zählgeräte (ISO 13366-2:2006)

Lait - Dénombrement des cellules somatiques - Partie 2: Lignes directrices pour la mise en oeuvre des compteurs fluoro-opto-électroniques (ISO 13366-2:2006)

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Ta slovenski standard je istoveten z: EN ISO 13366-2:2006

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English Version

Milk - Enumeration of somatic cells - Part 2: Guidance on the operation of fluoro-opto-electronic counters (ISO 13366-2:2006)

Lait - Dénombrement des cellules somatiques - Partie 2:
Lignes directrices pour la mise en oeuvre des compteurs
fluoro-opto-électroniques (ISO 13366-2:2006)

Milch - Zählung somatischer Zellen - Teil 2: Leitfaden zum
Betrieb fluoreszenzoptoelektronischer Zählgeräte (ISO
13366-2:2006)

This European Standard was approved by CEN on 29 September 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 13366-2:2006) has been prepared by Technical Committee ISO/TC 34 "Agricultural food products" in collaboration with Technical Committee CEN/TC 302 "Milk and milk products - Methods of sampling and analysis", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

This document supersedes EN ISO 13366-2:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 13366-2:2006 has been approved by CEN as EN ISO 13366-2:2006 without any modifications.

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**Milk — Enumeration of somatic cells —
Part 2:
Guidance on the operation
of fluoro-opto-electronic counters**

Lait — Dénombrement des cellules somatiques —

*Partie 2: Lignes directrices pour la mise en œuvre des compteurs
fluoro-opto-électroniques*

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Reference numbers
ISO 13366-2:2006(E)
IDF 148-2:2006(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 13366-2|IDF 148-2 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF). It is being published jointly by ISO and IDF.

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This edition of ISO 13366-2|IDF 148-2 (cancels and replaces ISO 13366-2:1997 and ISO 13366-3:1997, which have been technically revised.

ISO 13366 consists of the following parts, under the general title *Milk* — *Enumeration of somatic cells*:

- *Part 1: Microscopic method (Reference method)*
- *Part 2: Guidance on the operation of fluoro-opto-electronic counters*

Foreword

IDF (the International Dairy Federation) is a worldwide federation of the dairy sector with a National Committee in every member country. Every National Committee has 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.

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

ISO 13366-2|IDF 148-2 was prepared by the International Dairy Federation (IDF) and Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*. It is being published jointly by IDF and ISO.

All work was carried out by the Joint ISO-IDF Action Team on *Automated methods*, of the Standing Committee on *Quality assurance, statistics of analytical data and sampling*, under the aegis of its project leaders, Mrs S. Orlandini (IT) and Mr H.J.C.M. van den Bijgaart (NL).

This edition of ISO 13366-2|IDF 148-2 cancels and replaces IDF 148A:1995, methods B and C of which have been technically revised.

ISO 13366 consists of the following parts, under the general title *Milk — Enumeration of somatic cells*:

- *Part 1: Microscopic method (Reference method)*
- *Part 2: Guidance on the operation of fluoro-opto-electronic counters*

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Milk — Enumeration of somatic cells —

Part 2:

Guidance on the operation of fluoro-opto-electronic counters

1 Scope

This part of ISO 13366|IDF 148 gives guidance on the operating conditions for counting somatic cells, in both raw and chemically preserved milk, using fluoro-opto-electronic somatic cell counters in which either a rotating disc technique or flow cytometry is applied in the counting section.

The guidance is applicable to the counting of somatic cells in raw cow milk. The guidance is also applicable to raw milk of other species, such as goat, sheep and buffalo, if the specified prerequisites are met.

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 8196-1|IDF 128-1, *Milk — Definition and evaluation of the overall accuracy of indirect methods of milk analysis — Part 1: Analytical attributes of indirect methods*

ISO 8196-2|IDF 128-2, *Milk — Definition and evaluation of the overall accuracy of indirect methods of milk analysis — Part 2: Calibration and quality control in the dairy laboratory*

ISO 13366-1|IDF 148-1, *Milk — Enumeration of somatic cells — Part 1: Microscopic method (Reference method)*

ISO Guide 34, *General requirements for the competence of reference material producers*

ISO Guide 43-1, *Proficiency testing by interlaboratory comparisons — Part 1: Development and operation of proficiency testing schemes*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8196-1|IDF 128-1, ISO 8196-2|IDF 128-2 and the following apply.

3.1

reference method

method described in ISO 13366-1|IDF 148-1 for the counting of somatic cells

3.2

somatic cells

those cells that show more than a threshold intensity of fluorescence due to the staining of DNA in their nuclei

NOTE The number of somatic cells is expressed in cells per millilitre.