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**Milk — Estimation of psychrotrophic  
microorganisms — Colony-count  
technique at 21 °C (Rapid method)**

*Lait — Estimation des micro-organismes psychrotrophes — Technique  
par comptage des colonies à 21 °C (Méthode rapide)*



Reference numbers  
ISO 8552:2004(E)  
IDF 132:2004(E)

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## Foreword

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ISO 8552|IDF 132 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF), in collaboration with AOAC International. It is being published jointly by ISO and IDF and separately by AOAC International.

## 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 and AOAC International 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 IDF National Committees casting a vote.

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All work was carried out by the Joint ISO/IDF/AOAC Action Team on *Microbiological harmonization*, of the Standing Committee on *Microbiological methods of analysis*, under the aegis of its project leader, Dr J. Floor (ZA).

This first edition of ISO 8552|IDF 132 cancels and replaces the first edition of IDF 132A:1991, which has been editorially and technically revised.

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## Introduction

The rapid method described in this International Standard is essentially an approximate method because the incubation conditions are such as to permit organisms other than psychrotrophs to be counted if they grow sufficiently quickly at 21 °C.

Nevertheless, comparative trials in a number of laboratories have shown that the results obtained by the method described here (based on that of Reference [1]) correlate well with those obtained by the method described in ISO 6790/IDF 101 (with incubation at 6,5 °C for 10 days). The latter method (which will be replaced by the horizontal method ISO 17410) should be used if a more accurate enumeration of psychrotrophic microorganisms is required.

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# Milk — Estimation of psychrotrophic microorganisms — Colony-count technique at 21 °C (Rapid method)

## 1 Scope

This international Standard specifies a rapid method for estimating the number of psychrotrophic microorganisms by means of the colony-count technique at 21 °C.

The method is applicable to raw and pasteurized milk.

## 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 6730, *Milk — Enumeration of colony-forming units of psychrotrophic micro-organisms — Colony count technique at 6,5 degrees C*<sup>1)</sup>

ISO 7218, *Microbiology of food and animal feeding stuffs — General rules for microbiological examinations*

ISO 8261|IDF 122, *Milk and milk products — General guidance for the preparation of test samples, initial suspensions and decimal dilutions for microbiological examination*

ISO/TS 11133-1, *Microbiology of food and animal feeding stuffs — Guidelines on preparation and production of culture media — Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory*

ISO/TS 11133-2, *Microbiology of food and animal feeding stuffs — Guidelines on preparation and production of culture media — Part 2: Practical guidelines on performance testing of culture media*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **psychrotrophic microorganisms**

bacteria, yeasts and moulds forming countable colonies when incubated aerobically at 6,5 °C for 10 days under the conditions specified in ISO 6730

1) Equivalent to IDF 101A:1991.