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**Milk and milk-based products — Detection
of coagulase-positive staphylococci —
Most probable number technique**

*Lait et produits à base de lait — Détection des staphylocoques à coagulase
positive — Technique du nombre le plus probable*



Reference numbers
ISO 5944:2001(E)
IDF 60:2001(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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 5944|IDF 60 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, in collaboration with the International Dairy Federation (IDF) and AOAC International. It is being published jointly with IDF and separately by AOAC International.

Annex A forms a normative part of this International Standard.

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 National Committees casting a vote.

International Standard ISO 5944|IDF 60 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.

All work was carried out by the Joint ISO/IDF/AOAC Action Team, *Pathogenic contaminants*, of the Standing Committee, *Microbiological methods of analysis*, under the aegis of its project leader, Mrs M.-L. De Buyser (FR).

This edition cancels and replaces IDF 60C:1997.

Milk and milk-based products — Detection of coagulase-positive staphylococci — Most probable number technique

1 Scope

This International Standard specifies a method for the enumeration of coagulase-positive staphylococci in all types of milk and milk-based products.

It is recommended for products where staphylococci are expected to be stressed and in low numbers as, for example, in dried milk products. Coagulase-positive staphylococci will primarily be *Staphylococcus aureus* but *Staphylococcus intermedius* and some strains of *Staphylococcus hyicus* also produce free coagulase.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

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

ISO 8261 | IDF 122, *Milk and milk products — Preparation of test samples and dilutions for microbiological examination*

ISO/TR 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*

3 Term and definition

For the purposes of this International Standard, the following term and definition applies.

3.1

coagulase-positive staphylococci

microorganisms which form typical and/or atypical colonies on the surface of a defined selective culture medium and which show a strongly positive coagulase reaction

NOTE For the purposes of this International Standard, the confirmation of coagulase-positive staphylococci is based on a strongly positive coagulase reaction but it is recognized that some strains of coagulase-positive staphylococci give weakly positive coagulase reactions. These latter strains could be confused with other bacteria but they can be distinguished from such other bacteria by the use of additional tests such as the production of thermonuclease (see reference [3]).