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Yogurt — Enumeration of characteristic microorganisms — Colony-count technique at 37 °C

Yaourt — Dénombrement des micro-organismes caractéristiques — Technique de comptage des colonies à 37 °C



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Foreword

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ISO 7889 IDF 117 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.

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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 the National Committees casting a vote.

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All work was carried out by the Joint ISO/IDF/AOAC Action Team, Lactic acid bacteria and starters, of the Standing Committee on Microbiological methods of analysis, under the aegis of its project leader, Prof. B. A edition of the order of the o Bianchi Salvadori (IT).

This edition cancels and replaces the first edition of IDF 117A:1988, which has been technically revised.

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Yogurt — Enumeration of characteristic microorganisms — Colony-count technique at 37 °C

1 Scope

This International Standard specifies a method for the enumeration of characteristic microorganisms in yogurt by means of the colony-count technique at 37 °C.

The method is applicable to vogurts in which both characteristic microorganisms (*Lactobacillus delbrueckii* subsp. *bulgaricus* and *Streptococcus thermophilus*) are present and viable.

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 6887-1, Microbiology of food and animal feeling stuffs — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 1: General rules for the preparation of the initial suspension and decimal dilutions

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions applications are

3.1

characteristic microorganisms in yogurt

Lactobacillus delbrueckii subsp. bulgaricus and Streptococcus thermophilus as defected under the conditions specified in this International Standard

3.2

Lactobacillus delbrueckii subsp. bulgaricus

thermophilic microorganism which forms lenticular, often sharp-shaped, colonies of diameter 1 mm to 3 mm on acidified MRS medium under the conditions specified in this International Standard

NOTE Under a microscope, these microorganisms appear as rods, generally short, but sometimes in longer forms. They are non-spore forming, Gram-positive, non-motile and catalase-negative.

3.3

Streptococcus thermophilus

thermophilic microorganism which forms lenticular colonies of diameter 1 mm to 2 mm on M17 medium under the conditions specified in this International Standard