TOIDUAINETE JA LOOMASÖÖTADE MIKROBIOLOOGIA. HORISONTAALMEETOD KOAGULAARPOSITIIVSETE STAFÜLOKOKKIDE (STAPHYLOCOCCUS AUREUS JA TEISED LIIGID) LOENDAMISEKS. OSA 1: BAIRD-PARKERI AGARSÖÖTME KASUTAMISE MEETOD

Microbiology of food and animal feeding stuffs -Horizontal method for the enumeration of coagulasepositive staphyllococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium (ISO 6888-1:1999)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

	This Estonian standard EVS-EN ISO 6888-1:2001 consists of the English text of the European standard EN ISO 6888-1:1999.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with notification published in the official bulletin of t Estonian Centre for Standardisation.		
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English version

Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium (ISO 6888-1:1999)

Microbiologie des aliments - Méthode horizontale pour le dénombrement des staphylocoques à coagulase positive (Staphylococcus aureus et autres espèces) - Partie 1: Technique utilisant le milieu gélosé de Baird-Parker (ISO 6888-1:1999) Mikrobiologie von Lebensmitteln und Futtermitteln -Horizontales Verfahren für die Zählung von koagulasepositiven Staphylokokken (Staphylococcus aureus und andere Spezies) - Teil 1: Verfahren mit Baird Parker Agar (ISO 6888-1:1999)

This European Standard was approved by CEN on 15 February 1999.

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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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 275 "Food analysis - Horizontal methods", the secretariat of which is held by DIN.

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 August 1999, and conflicting national standards shall be withdrawn at the latest by August 1999.

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

Endorsement notice

The text of the International Standard ISO 6888-1:1999 has been approved by CEN as a European Standard without any modification. Oction ochological and the state of the stat

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0 Introduction

0.1 Because of the large variety of food and feed products, this horizontal method may not be appropriate in every detail for certain products. In this case, different methods, which are specific to these products, may be used if absolutely necessary for justified technical reasons. Nevertheless, every attempt should be made to apply this horizontal method as far as possible.

When this part of ISO 6888 is next reviewed, account will be taken of all information then available regarding the extent to which this horizontal method has been followed and the reasons for deviations from this method in the case of particular products.

The harmonization of test methods cannot be immediate and, for certain group of products, International Standards and/or national standards may already exist that do not comply with this horizontal method. It is hoped that when such standards are reviewed they will be changed to comply with this part of ISO 6888 so that eventually the only remaining departures from this horizontal method will be those necessary for well-established technical reasons.

0.2 ISO 6888 describes two horizontal methods (part 1 and part 2) for the enumeration of coagulase-positive staphylococci among which enterotoxinogenic strains are encountered. It is mainly concerned with *Staphylococcus aureus*, but also with *S. intermedius* and certain strains of *S. hyicus*.

In the general case, use part 1 of ISO 6888. However, it is preferable to use the procedure described in part 2 (see reference [1]) only for foodstuffs (such as cheeses made from raw milk and certain raw meat products) likely to be contaminated by:

- staphylococci forming atypical colonies on a Baird-Parker agar medium;
- background flora which can obscure the colonies being sought.
- **0.3** For the purposes of this part of ISO 6888, the confirmation of staphylococci is based on a positive coagulase reaction, but it is reconized that some strains of *Staphylococcus aureus* give weakly positive coagulase reactions. These latter strains may be confused with other bacteria but they may be distinguished from such other bacteria by the use of additional tests not included in this part of ISO 6888, such as the sensitivity to lysostaphin, the production of haemolysin, of thermostable nuclease and of acid from mannitol (see reference [2]).

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.

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.

International Standard ISO 6888-1 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 9, *Microbiology*.

This first edition of ISO 6888-1, together with ISO 6888-2, cancels and replaces ISO 6888:1983, which has been technically revised.

ISO 6888 consists of the following parts, under the general title *Microbiology of food and animal feeding stuffs* — *Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species)*:

- Part 1: Technique using Baird-Parker agar medium
- Part 2: Technique using rabbit plasma fibrinogen agar medium

Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) —

Part 1:

Technique using Baird-Parker agar medium

1 Scope

This part of ISO 6888 specifies a horizontal method for the enumeration of coagulase-positive staphylococci in products intended for human consumption or feeding of animals, by counting of colonies obtained on a solid medium (Baird-Parker medium) after aerobic incubation at 35 °C or 37 °C.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 6888. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 6888 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 6887-1, Microbiology of food and animal feeding stuffs — Rules for the preparation of the test sample, of initial suspension and of decimal dilutions for microbiological examination — Part 1: General rules for the preparation of the initial suspension and of decimal dilutions.

ISO 7218, Microbiology of food and animal feeding stuffs — General rules for microbiological examination.

3 Terms and definitions

For the purposes of this part of ISO 6888, the following terms and definitions apply

3.1

coagulase-positive staphylococci

bacteria which form typical and/or atypical colonies on the surface of a selective culture medium and which show a positive coagulase reaction when the test is performed following the method specified in this part of ISO 6888

3.2

enumeration of the coagulase-positive staphylococci

determination of the number of coagulase-postive staphylococci found per millilitre or per gram of sample when the test is carried out according to the method specified in this part of ISO 68