

**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 coagulase-
positive staphylococci (Staphylococcus aureus and
other species) - Part 1: Technique using Baird-
Parker agar medium
(ISO 6888-1:1999 + ISO 6888-1:1999/Amd 1:2003 +
ISO 6888-1:1999/Amd 2:2018)**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN ISO 6888-1:2001+A1+A2:2018 sisaldab Euroopa standardi EN ISO 6888-1:1999 ja selle muudatuste A1:2003 ja A2:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 6888-1:2001+A1+A2:2018 consists of the English text of the European standard EN ISO 6888-1:1999 and its amendments A1:2003 and A2:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the 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 koagulase-positiven Staphylokokken (Staphylococcus aureus und andere Spezies) - Teil 1: Verfahren mit Baird Parker Agar (ISO 6888-1:1999)

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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 recognized 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]).

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-positive 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 6888