

# SLOVENSKI STANDARD **SIST EN ISO 6887-1:1999**

01-december-1999

Mikrobiologija živil in krmil - Priprava vzorcev za preskušanje ter osnovne in decimalnih razredčin za mikrobiološko preiskavo - 1. del: Splošna pravila za pripravo osnovne in decimalnih razredčin (ISO 6887-1:1999)

Microbiology of food and animal feeding 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 6887-1:1999)

iTeh STANDARD PREVIEW
Mikrobiologie von Lebensmitteln und Futtermitteln - Vorbereitung von Untersuchungsproben und Herstellung von Erstverdünnungen und von Dezimalverdünnungen für mikrobiologische Untersuchungen - Teil 1: Allgemeine Regeln für die Herstellung von Erstverdünnungen und Dezimalverdünnungen (ISO 6887-1:1999)

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Microbiologie des aliments - Préparation des échantillons de la suspension mere et des dilutions en vue de l'examen microbiologique - Partie 1: Regles générales pour la préparation de la suspension mere et des dilutions décimales (ISO 6887-1:1999)

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ICS:

07.100.30 Food microbiology Mikrobiologija živil

**SIST EN ISO 6887-1:1999** en **SIST EN ISO 6887-1:1999** 

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

**EN ISO 6887-1** 

February 1999

ICS 07.100

### English version

Microbiology of food and animal feeding 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 6887-1:1999)

Microbiologie des aliments - Préparation des échantillons de la suspension mère et des dilutions en vue de l'examen microbiologique - Partie 1: Règles générales pour la préparation de la suspension mère et des dilutions décimales (ISO 6887-1:1999) Mikrobiologie von Lebensmitteln und Futtermitteln -Vorbereitung von Untersuchungsproben und Herstellung von Erstverdünnungen und von Dezimalverdünnungen für mikrobiologische Untersuchungen - Teil 1: Allgemeine Regeln für die Herstellung von Erstverdünnungen und Dezimalverdünnungen (ISO 6887-1:1999)

# iTeh STANDARD PREVIEW

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

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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

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#### **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 6887-1:1999 has been approved by CEN as a European Standard without any modification.

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# INTERNATIONAL STANDARD

ISO 6887-1

First edition 1999-02-15

Microbiology of food and animal feeding stuffs — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination —

# Part 1:

Teh General rules for the preparation of the initial suspension and decimal dilutions

Microbiologie des aliments — Préparation des échantillons, de la suspension mère et des dilutions décimales en vue de l'examen https://standards.in/in/cobiologique ards/sist/05c909b0-bic-4b1c-9994-35ic/c943eta/sist-en-iso-6887-1-1999

Partie 1: Règles générales pour la préparation de la suspension mère et des dilutions décimales



ISO 6887-1:1999(E)

#### **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 6887-1 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 9, *Microbiology*.

This first edition of ISO 6887-1 cancels and replaces ISO 6887:1983.

ISO 6887 consists of the following parts, under the general title *Microbiology of food and animal feeding 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 for microbiological examination (standards.iteh.ai)
- Part 2: Specific rules for the preparation of test samples and initial suspension SIST EN ISO 6887-1:1999

Part 2 will probably be divided into several parts, for specific products such as meat, milk, fish and other products.

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### Introduction

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 6887 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 6887 so that eventually the only remaining departures from this horizontal method will be those necessary for well-established technical reasons.

This part of ISO 6887 defines the general rules for the preparation of the initial suspension and of decimal dilutions for microbiological examination. Part 2 of ISO 6887 (under preparation) will specify specific rules for the preparation of the test sample and of the initial suspension, taking into account the variety of food and feed products to which ISO 6887 applies.

For a number of products, it is necessary to take special precautions especially when preparing the initial suspension, because of the physical state of the product (such as a dry product, a highly viscous product), or the presence of inhibitory substances (such as spices, salted fishes), or the acidity, etc.

It is recommended that, whilst waiting for the publication of part 2, any special diluents or practices specified for particular products in an appropriate specific standard be used in the preparation of the initial suspension. This may include:

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- adjustment of the pH of a food suspension to neutrality;
- the use of buffered peptone water, and no other diluent, for products with high inhibitory effect, or products containing microorganisms that have been stressed (e.g. acidic pH);
- specific rehydration procedures for foods of low water activity to minimize osmotic shock;
- the use of adequate temperatures to aid suspension of cocoa, gelatine, milk powder, etc.;
- resuscitation procedures for the improved recovery of stressed microorganisms resulting from food processing and storage;
- homogenization procedures and duration specific to certain products (e.g. cereals) and/or to certain determinations (e.g. yeasts and moulds);
- the use of surface-active agents for high-fat foods.

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# Microbiology of food and animal feeding 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

## 1 Scope

This part of ISO 6887 defines general rules for the aerobic preparation of the initial suspension and of decimal dilutions for microbiological examinations of products intended for human or animal consumption.

This part of ISO 6887 is applicable to the general case, except for products mentioned in ISO 6887-2.

# iTeh STANDARD PREVIEW

# 2 Normative reference

(standards.iteh.ai)

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 6887. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this part of ISO 6887 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.

#### 3 Definitions

For the purposes of this part of ISO 6887, the following definitions apply.

### 3.1

### initial suspension (primary dilution)

suspension, solution or emulsion obtained after a weighed or measured quantity of the product under examination (or of a test sample prepared from the product) has been mixed with a nine-fold quantity of diluent, allowing large particles, if present, to settle

NOTE See clause 5 and notes 1 and 2 of 9.1.

#### 3.2

### further decimal dilutions

suspensions or solutions obtained by mixing a measured volume of the initial suspension (3.1) with a ninefold volume of diluent and by repeating this operation with further dilutions until a decimal dilution series, suitable for the inoculation of culture media, is obtained