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# Mikrobiologiske undersøgelser i fødevarekæden – Forberedelse af prøvemateriale, første fortynding og tifoldsforthyndinger til mikrobiologiske undersøgelser – Del 4: Specifikke krav vedrørende diverse produkter

Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – Part 4: Specific rules for the preparation of miscellaneous products (ISO 6887-4:2017)

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Supersedes EN ISO 6887-4:2003

English Version

## Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 4: Specific rules for the preparation of miscellaneous products (ISO 6887-4:2017)

Microbiologie de la chaîne alimentaire - Préparation des échantillons, de la suspension mère et des dilutions décimales en vue de l'examen microbiologique - Partie 4: Règles spécifiques pour la préparation de produits variés (ISO 6887-4:2017)

Mikrobiologie der Lebensmittelkette - Vorbereitung von Untersuchungsproben und Herstellung von Erstverdünnungen und von Dezimalverdünnungen für mikrobiologische Untersuchungen - Teil 4: Spezifische Regeln für die Vorbereitung von sonstigen Erzeugnissen (ISO 6887-4:2017)

This European Standard was approved by CEN on 14 January 2017.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN ISO 6887-4:2017) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with 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of an identical text or by endorsement, at the latest by October 2017, and conflicting national standards shall be withdrawn at the latest by October 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6887-4:2003.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Endorsement notice

The text of ISO 6887-4:2017 has been approved by CEN as EN ISO 6887-4:2017 without any modification.

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Second edition  
2017-03

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# Microbiology of the food chain — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination —

Part 4:

## Specific rules for the preparation of miscellaneous products

*Microbiologie de la chaîne alimentaire — Préparation des  
échantillons, de la suspension mère et des dilutions décimales en vue  
de l'examen microbiologique —*

*Partie 4: Règles spécifiques pour la préparation de produits variés*



Reference number  
ISO 6887-4:2017(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 9, *Microbiology*.

This second edition cancels and replaces the first edition (ISO 6887-4:2003), which has been technically revised.

It also incorporates the Amendment ISO 6887-4:2003/Amd.1:2011 and the Technical Corrigendum ISO 6887-4:2003/Cor.1:2004.

A list of all parts in the ISO 6887 series can be found on the ISO website.

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# Microbiology of the food chain — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination —

## Part 4: Specific rules for the preparation of miscellaneous products

**WARNING** — The use of this document may involve hazardous materials, operations and equipment. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before use.

### 1 Scope

This document specifies rules for the preparation of samples and dilutions for the microbiological examination of specific food products not covered in other parts of ISO 6887, which deal with more general categories. This document covers a wide range of miscellaneous products, but does not include new products brought on to the market after publication.

ISO 6887-1 defines the general rules for the preparation of the initial suspension and dilutions for microbiological examination.

This document excludes preparation of samples for both enumeration and detection test methods when preparation details are specified in the relevant International Standards.

This document is applicable to the following products:

- acidic (low pH) products;
- hard and dry products;
- dehydrated, freeze-dried and other low  $a_w$  products (including those with inhibitory properties);
- flours, whole cereal grains, cereal by-products;
- animal feed, cattle cake, kibbles and pet chews;
- gelatine (powdered and leaf);
- margarines, spreads and non-dairy products with added water;
- eggs and egg products;
- bakery goods, pastries and cakes;
- fresh fruit and vegetables;
- fermented products and other products containing viable microorganisms;
- alcoholic and non-alcoholic beverages;
- alternative protein products.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 the food chain — 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 requirements and guidance for microbiological examinations*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6887-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/>

## 4 Principle

The general principles for sample preparation and subsequent steps are detailed in ISO 6887-1. This document describes specific measures for products not covered in other parts of ISO 6887.

An initial suspension is prepared to obtain as uniform a distribution as possible of the microorganisms contained in the test portion.

For detection methods, the pre-enrichment or enrichment suspension is prepared in the same way, using the medium recommended in the method of examination concerned. For enumeration methods used for all food types covered in this document, general diluents are documented in the relevant clauses of ISO 6887-1 and specific diluents are included in [Clause 5](#).

If necessary, further dilutions are prepared in order to reduce the number of microorganisms per unit volume to allow, after incubation, observation of any growth (in the case of liquid media) or colonies (in the case of agar plates or agar tubes) as stated in each specific standard.

## 5 Diluents

### 5.1 Basic materials

Refer to ISO 6887-1.

### 5.2 Diluents for general use

#### 5.2.1 Peptone salt solution

Refer to ISO 6887-1.

#### 5.2.2 Buffered peptone water

Refer to ISO 6887-1.