



NSAI
Standards

Irish Standard
I.S. EN ISO 4833-1:2013&A1:2022

Microbiology of the food chain -
Horizontal method for the enumeration of
microorganisms - Part 1: Colony count at
30 degrees C by the pour plate technique
(ISO 4833-1:2013)

I.S. EN ISO 4833-1:2013&A1:2022

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN ISO 4833-1:2013/A1:2022

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN ISO 4833-1:2013&A1:2022 is the adopted Irish version of the European Document EN ISO 4833-1:2013, Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30 degrees C by the pour plate technique (ISO 4833-1:2013)

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EUROPEAN STANDARD

EN ISO 4833-1:2013/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2022

ICS 07.100.30

English Version

Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30 °C by the pour plate technique - Amendment 1: Clarification of scope (ISO 4833-1:2013/Amd 1:2022)

Microbiologie de la chaîne alimentaire - Méthode horizontale pour le dénombrement des micro-organismes - Partie 1: Comptage des colonies à 30 °C par la technique d'ensemencement en profondeur - Amendement 1: Clarification du domaine d'application (ISO 4833-1:2013/Amd 1:2022)

Mikrobiologie der Lebensmittelkette - Horizontales Verfahren zur Zählung von Mikroorganismen - Teil 1: Koloniezählung bei 30 °C mittels Gussplattenverfahren - Änderung 1: Klarstellung des Anwendungsbereichs (ISO 4833-1:2013/Amd 1:2022)

This amendment A1 modifies the European Standard EN ISO 4833-1:2013; it was approved by CEN on 1 January 2022.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 4833-1:2013/A1:2022 (E)

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European foreword

This document (EN ISO 4833-1:2013/A1:2022) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 463 "Microbiology of the food chain" the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN ISO 4833-1:2013 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2022, and conflicting national standards shall be withdrawn at the latest by July 2022.

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Endorsement notice

The text of ISO 4833-1:2013/Amd 1:2022 has been approved by CEN as EN ISO 4833-1:2013/A1:2022 without any modification.

Foreword

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This document was prepared by Technical Committee TC 34, *Food products*, Subcommittee SC 9, *Microbiology*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 463, *Microbiology of the food chain*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 4833 series can be found on the ISO website.

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EUROPEAN STANDARD

EN ISO 4833-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2013

ICS 07.100.30

Supersedes EN ISO 4833:2003

English Version

Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30 degrees C by the pour plate technique (ISO 4833-1:2013)

Microbiologie de la chaîne alimentaire - Méthode horizontale pour le dénombrement des micro-organismes - Partie 1: Comptage des colonies à 30 degrés C par la technique d'ensemencement en profondeur (ISO 4833-1:2013)

Mikrobiologie von Lebensmitteln und Futtermitteln - Horizontales Verfahren zur Zählung von Mikroorganismen - Teil 1: Koloniezählverfahren bei 30 °C mittels Gussplattenverfahren (ISO 4833-1:2013)

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

EN ISO 4833-1:2013 (E)

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Foreword

This document (EN ISO 4833-1:2013) 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 March 2014, and conflicting national standards shall be withdrawn at the latest by March 2014.

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This document supersedes EN ISO 4833:2003, together with EN ISO 4833-2:2013.

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Endorsement notice

The text of ISO 4833-1:2013 has been approved by CEN as EN ISO 4833-1:2013 without any modification.

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INTERNATIONAL STANDARD

ISO 4833-1

First edition
2013-09-01

Microbiology of the food chain — Horizontal method for the enumeration of microorganisms —

Part 1: Colony count at 30 °C by the pour plate technique

*Microbiologie de la chaîne alimentaire — Méthode horizontale pour
le dénombrement des micro-organismes —*

*Partie 1: Comptage des colonies à 30 °C par la technique
d'ensemencement en profondeur*



Reference number
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ISO 4833-1:2013(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.

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

This first edition, together with ISO 4833-2, cancels and replaces ISO 4833:2003.

ISO 4833 consists of the following parts, under the general title *Microbiology of the food chain — Horizontal method for the enumeration of microorganisms*:

- *Part 1: Colony count at 30 °C by the pour plate technique*
- *Part 2: Colony count at 30 °C by the surface plating technique*

Microbiology of the food chain — Horizontal method for the enumeration of microorganisms —

Part 1: Colony count at 30 °C by the pour plate technique

1 Scope

This part of ISO 4833 specifies a horizontal method for enumeration of microorganisms that are able to grow and form colonies in a solid medium after aerobic incubation at 30 °C. The method is applicable to:

- a) products intended for human consumption and for animal feed;
- b) environmental samples in the area of food and feed production and handling.

This part of ISO 4833 is applicable to:

- 1) products that require a reliable count when a low limit of detection is specified (below 10^2 /g or 10^2 /ml for liquid samples or below 10^3 /g for solid samples);
- 2) products expected to contain spreading colonies that obscure colonies of other organisms, e.g. milk and milk products likely to contain spreading *Bacillus* spp.

The applicability of this part of ISO 4833 to the examination of certain fermented food and animal feeds is limited and other media or incubation conditions can be more appropriate. However, this method can be applied to such products even though it is possible that the predominant microorganisms in those products are not detected effectively.

For some matrices, the method specified in this part of ISO 4833 can give different results to those obtained using the method specified in ISO 4833-2.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6887 (all parts), *Microbiology of food and animal feeding stuffs — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination*

ISO 7218, *Microbiology of food and animal feeding stuffs — General requirements and guidance for microbiological examinations*

ISO 11133, *Microbiology of food, animal feed and water — Preparation, production, storage and performance testing of culture media*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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