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NSAI Standards

Irish Standard
I.S. EN ISO 4833-2:2013&AC:2014

Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 2: Colony count at 30 degrees C by the surface plating technique (ISO 4833-2:2013)

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Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:	*Published:*
EN ISO 4833-2:2013	2013-09-04

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2014-08-13	07.100.30
	NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 4833-2:2013/AC

February 2014
Février 2014
Februar 2014

ICS 07.100.30

English version
Version Française
Deutsche Fassung

Microbiology of the food chain - Horizontal method for the enumeration of microorganisms - Part 2: Colony count at 30 degrees C by the surface plating technique - Technical Corrigendum 1 (ISO 4833-2:2013/Cor 1:2014)

Microbiologie de la chaîne alimentaire - Méthode horizontale pour le dénombrement des micro-organismes - Partie 2: Comptage des colonies à 30 degrés C par la technique d'ensemencement en surface - Rectificatif technique 1 (ISO 4833-2:2013/Cor 1:2014)

Mikrobiologie der Lebensmittelkette - Horizontales Verfahren für die Zählung von Mikroorganismen - Teil 2: Koloniezählung bei 30 °C mittels Oberflächenverfahren - Berichtigung 1 (ISO 4833-2:2013/Cor 1:2014)

This corrigendum becomes effective on 19 February 2014 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 19 février 2014 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 19. Februar 2014 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

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

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Ref. No.:EN ISO 4833-2:2013/AC:2014 D/E/F

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Foreword

This document (EN ISO 4833-2:2013/AC:2014) 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.

Endorsement notice

The text of ISO 4833-2:2013/Cor 1:2014 has been approved by CEN as EN ISO 4833-2:2013/AC:2014 without any modification.

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INTERNATIONAL STANDARD ISO 4833-2:2013
TECHNICAL CORRIGENDUM 1

Published 2014-02-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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

Part 2:
Colony count at 30 degrees C by the surface plating technique

TECHNICAL CORRIGENDUM 1

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

Partie 2: Comptage des colonies à 30 degrés C par la technique d'ensemencement en surface

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 4833-2:2013 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 9, *Microbiology*.

Page 2, 5.3.1

In the first line, replace "Enzymatic digest of animal tissues" with "Enzymatic digestion of casein" as follows:

5.3.1 Composition

Enzymatic digestion of casein 5,0 g

ICS 07.100.30 **Ref. No. ISO 4833-2:2013/Cor.1:2014(E)**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 4833-2

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 2: Colony count at 30 degrees C by the surface plating technique (ISO 4833-2:2013)

Microbiologie de la chaîne alimentaire - Méthode horizontale pour le dénombrement des micro-organismes - Partie 2: Comptage des colonies à 30 degrés C par la technique d'ensemencement en surface (ISO 4833-2:2013)

Mikrobiologie von Lebensmitteln und Futtermitteln - Horizontales Verfahren für die Zählung von Mikroorganismen - Teil 2: Koloniezählung bei 30 °C mittels Oberflächenverfahren (ISO 4833-2:2013)

This European Standard was approved by CEN on 26 July 2013.

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Ref. No. EN ISO 4833-2:2013: E

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Foreword

This document (EN ISO 4833-2:2013) 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.

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 4833:2003, together with EN ISO 4833-1:2013.

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Endorsement notice

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INTERNATIONAL STANDARD

ISO 4833-2

First edition
2013-09-01

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

Part 2: Colony count at 30 °C by the surface plating technique

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

Partie 2: Comptage des colonies à 30 °C par la technique d'ensemencement en surface

Reference number
ISO 4833-2:2013(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, www.iso.org/directives.

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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 4833-1, 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*

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

Part 2: Colony count at 30 °C by the surface plating technique

1 Scope

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

a) products intended for human consumption or for animal feed;

b) environmental samples in the area of food and feed production and food handling.

This part of ISO 4833 is applicable to:

1) products containing heat-sensitive organisms that are likely to form a significant proportion of the total flora (e.g. psychrotrophic organisms in chilled and frozen foods, dried foods, other foods that may contain heat-sensitive organisms);

2) products containing obligately aerobic bacteria that are likely to form a significant proportion of the total flora (e.g. *Pseudomonas* spp.);

3) products that contain small particles that can prove difficult to distinguish from colonies in a pour plate;

4) products whose intense colour prevents the recognition of colonies in a pour plate;

5) products for which distinction between different types of colony is required as part of the assessment of food quality.

In addition to the manual spread plating technique, this part of ISO 4833 also specifies the use of a spiral plater, a rapid method of performing surface colony counts (Annex A).

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 these products are not detected effectively.

For some matrices, the method described in this part of ISO 4833 can give different results to those obtained using the method described in ISO 4833-1.

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*

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