

Microbiology of the food chain - Horizontal method for detection and enumeration of *Campylobacter* spp. - Part 1: Detection method (ISO 10272-1:2017)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

|                                                                                                                     |                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| See Eesti standard EVS-EN ISO 10272-1:2017 sisaldab Euroopa standardi EN ISO 10272-1:2017 ingliskeelset teksti.     | This Estonian standard EVS-EN ISO 10272-1:2017 consists of the English text of the European standard EN ISO 10272-1:2017.          |
| 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. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.07.2017. | Date of Availability of the European standard is 05.07.2017.                                                                       |
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English Version

Microbiology of the food chain - Horizontal method for  
detection and enumeration of *Campylobacter* spp. - Part 1:  
Detection method (ISO 10272-1:2017)

Microbiologie de la chaîne alimentaire - Méthode  
horizontale pour la recherche et le dénombrement de  
*Campylobacter* spp. - Partie 1 : Méthode de recherche  
(ISO 10272-1:2017)

Mikrobiologie der Lebensmittelkette - Horizontales  
Verfahren zum Nachweis und zur Zählung von  
*Campylobacter* spp. - Teil 1: Nachweisverfahren (ISO  
10272-1:2017)

This European Standard was approved by CEN on 1 May 2017.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN ISO 10272-1:2017) 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 January 2018 and conflicting national standards shall be withdrawn at the latest by January 2018.

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

This document supersedes EN ISO 10272-1:2006.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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 10272-1:2017 has been approved by CEN as EN ISO 10272-1:2017 without any modification.

# Contents

Page

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>Foreword</b>                                               | <b>v</b>  |
| <b>Introduction</b>                                           | <b>vi</b> |
| <b>1 Scope</b>                                                | <b>1</b>  |
| <b>2 Normative references</b>                                 | <b>1</b>  |
| <b>3 Terms and definitions</b>                                | <b>1</b>  |
| <b>4 Principle</b>                                            | <b>2</b>  |
| 4.1 General                                                   | 2         |
| 4.2 Enrichment in selective liquid medium                     | 2         |
| 4.2.1 Detection procedure A                                   | 2         |
| 4.2.2 Detection procedure B                                   | 2         |
| 4.2.3 Detection procedure C                                   | 2         |
| 4.3 Isolation on selective solid medium                       | 3         |
| 4.3.1 Detection procedure A                                   | 3         |
| 4.3.2 Detection procedure B                                   | 3         |
| 4.3.3 Detection procedure C                                   | 3         |
| 4.3.4 Detection procedure A, B and C                          | 3         |
| 4.4 Confirmation                                              | 3         |
| <b>5 Culture media and reagents</b>                           | <b>3</b>  |
| <b>6 Equipment and consumables</b>                            | <b>3</b>  |
| <b>7 Sampling</b>                                             | <b>4</b>  |
| <b>8 Preparation of test sample</b>                           | <b>4</b>  |
| <b>9 Procedure</b>                                            | <b>4</b>  |
| 9.1 General                                                   | 4         |
| 9.2 Test portion and initial suspension                       | 5         |
| 9.2.1 General                                                 | 5         |
| 9.2.2 Detection procedure A                                   | 5         |
| 9.2.3 Detection procedure B                                   | 5         |
| 9.2.4 Detection procedure C                                   | 5         |
| 9.3 Enrichment                                                | 6         |
| 9.3.1 Detection procedure A                                   | 6         |
| 9.3.2 Detection procedure B                                   | 6         |
| 9.4 Isolation                                                 | 6         |
| 9.4.1 Detection procedure A                                   | 6         |
| 9.4.2 Detection procedure B                                   | 6         |
| 9.4.3 Detection procedures A, B and C                         | 6         |
| 9.5 Confirmation of <i>Campylobacter</i>                      | 6         |
| 9.5.1 General                                                 | 6         |
| 9.5.2 Selection of colonies for confirmation                  | 7         |
| 9.5.3 Examination of morphology and motility                  | 7         |
| 9.5.4 Study of aerobic growth at 25 °C                        | 7         |
| 9.5.5 Detection of oxidase activity                           | 7         |
| 9.5.6 Interpretation                                          | 7         |
| 9.6 Identification of <i>Campylobacter</i> species (optional) | 8         |
| 9.6.1 General                                                 | 8         |
| 9.6.2 Detection of catalase activity                          | 8         |
| 9.6.3 Detection of hippurate hydrolysis                       | 8         |
| 9.6.4 Detection of indoxyl acetate hydrolysis                 | 8         |
| 9.6.5 Interpretation                                          | 9         |
| <b>10 Expression of results</b>                               | <b>9</b>  |
| <b>11 Performance characteristics of the method</b>           | <b>9</b>  |

|                     |                                                                                     |           |
|---------------------|-------------------------------------------------------------------------------------|-----------|
| 11.1                | Interlaboratory study.....                                                          | 9         |
| 11.2                | Sensitivity.....                                                                    | 9         |
| 11.3                | Specificity.....                                                                    | 9         |
| 11.4                | LOD <sub>50</sub> .....                                                             | 9         |
| <b>12</b>           | <b>Test report.....</b>                                                             | <b>10</b> |
| <b>Annex A</b>      | <b>(normative) Diagram of procedures.....</b>                                       | <b>11</b> |
| <b>Annex B</b>      | <b>(normative) Culture media and reagents.....</b>                                  | <b>12</b> |
| <b>Annex C</b>      | <b>(informative) Method validation studies and performance characteristics.....</b> | <b>21</b> |
| <b>Bibliography</b> | <b>.....</b>                                                                        | <b>24</b> |

## 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).

This document was prepared by the European Committee for Standardization (CEN), Technical Committee CEN/TC 275, *Food Analysis — Horizontal methods*, in collaboration with ISO Technical committee ISO/TC 34, *Food products*, Subcommittee SC 9, *Microbiology*, in accordance with the agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 10272-1:2006), which has been technically revised with the following main changes:

- samples from the primary production stage have been added to the scope;
- the detection method was extended to include the option of a second enrichment broth (Preston broth), primarily to overcome problems with background flora resistant to third generation  $\beta$ -lactams (like cefoperazone in Bolton broth);
- the detection method was extended to include the option of direct plating on mCCDA;
- the note on the use of closed containers with reduced headspace as an alternative to incubation in a microaerobic atmosphere has been deleted;
- the confirmation tests on study of microaerobic growth at 25 °C and aerobic growth at 41,5 °C were replaced by the study of aerobic growth at 25 °C;
- performance testing for the quality assurance of the culture media has been added to [Annex B](#);
- performance characteristics have been added to [Annex C](#).

A list of all parts in the ISO 10272 series can be found on the ISO website.

## Introduction

The main changes, listed in the foreword, introduced in this document compared to ISO 10272-1:2006 are considered as minor (see ISO 17468).

Because of the large variety of food and feed products, this horizontal method may not be appropriate in every detail for certain products, and for some other products it may be necessary to use different methods. Nevertheless, it is hoped that in all cases every attempt will be made to apply this horizontal method as far as possible and that deviations from this will only be made if absolutely necessary for technical reasons.

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

# Microbiology of the food chain — Horizontal method for detection and enumeration of *Campylobacter* spp. —

## Part 1: Detection method

**WARNING** — In order to safeguard the health of laboratory personnel, it is essential that tests for detecting *Campylobacter* are only undertaken in properly equipped laboratories, under the control of a skilled microbiologist, and that great care is taken in the disposal of all incubated materials. Persons using this document should be familiar with normal laboratory practice. This document does not purport to address all of the safety aspects, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

### 1 Scope

This document specifies a horizontal method for the detection by enrichment or direct plating of *Campylobacter* spp. It is applicable to

- products intended for human consumption,
- products intended for animal feeding,
- environmental samples in the area of food and feed production, handling, and
- samples from the primary production stage such as animal faeces, dust, and swabs.

### 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 (all parts), *Microbiology of the food chain — 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.

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 <http://www.iso.org/obp>