

Microbiology of food and animal feedings stuffs - Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*

Microbiology of food and animal feedings stuffs - Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 10273:2004 sisaldab Euroopa standardi EN ISO 10273:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 10273:2004 consists of the English text of the European standard EN ISO 10273:2003.</p> <p>This document is endorsed on 23.11.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p>Käsitlusala: This International Standard specifies a horizontal method for the detection of <i>Yersinia enterocolitica</i> presumed to be pathogenic to human subjects. This International Standard is applicable to - products intended for human consumption and the feeding of animals, and - environmental samples in the area of food production and food handling.</p>	<p>Scope: This International Standard specifies a horizontal method for the detection of <i>Yersinia enterocolitica</i> presumed to be pathogenic to human subjects. This International Standard is applicable to - products intended for human consumption and the feeding of animals, and - environmental samples in the area of food production and food handling.</p>
--	--

ICS 07.100.30

Võtmesõnad:

English version

Microbiology of food and animal feeding stuffs

Horizontal method for the detection of presumptive pathogenic

Yersinia enterocolitica

(ISO 10273 : 2003)

Microbiologie des aliments – Méthode horizontale pour la recherche de *Yersinia enterocolitica* présumées pathogènes (ISO 10273 : 2003)

Mikrobiologie von Lebensmitteln und Futtermitteln – Horizontales Verfahren zum Nachweis von präsumtiv pathogenen *Yersinia enterocolitica* (ISO 10273 : 2003)

This European Standard was approved by CEN on 2003-05-20.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 10273 : 2003 Microbiology of food and animal feeding stuffs – Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*,

which was prepared by ISO/TC 34 'Agricultural food products' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 275 'Food analysis – Horizontal methods', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by December 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 10273 : 2003 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

This document is a preview generated by EVS

Contents

Page

Foreword	2
Introduction	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	5
4.1 General	5
4.2 Enrichment in selective liquid media	5
4.3 Plating out and identification	5
4.4 Confirmation	5
5 Reagents and media	5
6 Apparatus and glassware	7
7 Sampling	8
8 Preparation of test sample	8
9 Procedure (see Annex A)	8
9.1 Test portion and initial suspension	8
9.2 Enrichment	9
9.3 Plating out and identification	9
9.4 Confirmation	9
10 Test report	15
Annex A (normative) Diagram of procedure	16
Annex B (normative) Composition and preparation of culture media and reagents	17
Annex C (informative) Biochemical characteristics at 30 °C of <i>Yersinia pseudotuberculosis</i> , <i>Yersinia enterocolitica</i> and biochemically related species	32
Annex D (informative) Biovars (biotyping) of <i>Yersinia enterocolitica</i>	33
Bibliography	33

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 will be made to apply this horizontal method as far as possible.

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

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

1 Scope

This International Standard specifies a horizontal method for the detection of *Yersinia enterocolitica* presumed to be pathogenic to human subjects. This International Standard is applicable to

- products intended for human consumption and the feeding of animals, and
- environmental samples in the area of food production and food handling.

2 Normative references

The following referenced documents are indispensable for the application 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 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 rules for microbiological examinations, and Amd.1:2001*

ISO 8261, *Milk and milk products — General guidance for the preparation of test samples, initial suspensions and decimal dilutions for microbiological examination*

ISO/TS 11133-1, *Microbiology of food and animal feeding stuffs — Guidelines on preparation and production of culture media — Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory*

3 Terms and definitions

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

3.1

presumptive pathogenic *Yersinia enterocolitica*

psychrotrophic bacteria forming characteristic colonies on solid selective media and having the biochemical properties meeting the pathogenicity criteria described when the test is carried out in accordance with this International Standard