



SLOVENSKI STANDARD SIST EN ISO 22119:2011

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Mikrobiologija živil in krme - Odkrivanje prisotnosti patogenih mikroorganizmov v živilih s polimerazno verižno reakcijo (PCR) v realnem času - Splošne zahteve in definicije (ISO 22119:2011)

Microbiology of food and animal feeding stuffs - Real-time polymerase chain reaction (PCR) for the detection of food-borne pathogens - General requirements and definitions (ISO 22119:2011)

Mikrobiologie von Lebensmitteln und Futtermitteln - Real-Time-Polymerase-Kettenreaktion (PCR) für den Nachweis von pathogenen Mikroorganismen in Lebensmitteln - Allgemeine Anforderungen und Begriffe (ISO 22119:2011)

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Microbiologie des aliments - Réaction de polymérisation en chaîne (PCR) en temps réel pour la détection des micro-organismes pathogènes dans les aliments - Exigences générales et définitions (ISO 22119:2011)

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Microbiology of food and animal feeding stuffs - Real-time polymerase chain reaction (PCR) for the detection of food-borne pathogens - General requirements and definitions (ISO 22119:2011)

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Mikrobiologie von Lebensmitteln und Futtermitteln - Real-time-Polymerase-Kettenreaktion (PCR) zum Nachweis von pathogenen Mikroorganismen in Lebensmitteln - Allgemeine Anforderungen und Begriffe (ISO 22119:2011)

This European Standard was approved by CEN on 14 July 2011.

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 CEN-CENELEC Management Centre or to any CEN member.

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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Contents

Page

Foreword.....3

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Foreword

This document (EN ISO 22119:2011) has been prepared by Technical Committee CEN/TC 275 "Food analysis - Horizontal methods", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 34 "Food products".

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 2012, and conflicting national standards shall be withdrawn at the latest by January 2012.

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.

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INTERNATIONAL STANDARD

ISO 22119

First edition
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Microbiology of food and animal feeding stuffs — Real-time polymerase chain reaction (PCR) for the detection of food- borne pathogens — General requirements and definitions

*Microbiologie des aliments — Réaction de polymérisation en chaîne
(PCR) en temps réel pour la détection des micro-organismes
pathogènes dans les aliments — Exigences générales et définitions*

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Contents

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle.....	5
4.1 General	5
4.2 Probes for real-time PCR.....	5
5 General laboratory requirements.....	6
6 Reagents and materials	6
7 Apparatus	7
8 Laboratory sample	8
9 Procedure	8
9.1 Sample preparation	8
9.2 Amplification.....	8
9.3 Controls	9
9.4 Analysis of the fluorescence data	9
10 Evaluation and documentation.....	11
Bibliography.....	12

ISO 22119:2011(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 22119 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 275, *Food analysis — Horizontal methods*, in collaboration with 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).

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Introduction

The polymerase chain reaction (PCR) has been shown to be a fast, sensitive, and specific method for detection of food-borne pathogens. Further developments of the technology allow the detection of specific PCR products generated by the amplification process. The principle relies on the excitation of fluorescent markers during the PCR process.

This International Standard is part of a series of documents under the general title *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection of food-borne pathogens*:

ISO/TS 20836, *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection of food-borne pathogens — Performance testing for thermal cyclers*

ISO 20837, *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection of food-borne pathogens — Requirements for sample preparation for qualitative detection*

ISO 20838, *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection of food-borne pathogens — Requirements for amplification and detection for qualitative methods*

ISO 22118, *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection and quantification of food-borne pathogens — Performance characteristics*

ISO 22119, *Microbiology of food and animal feeding stuffs — Real-time polymerase chain reaction (PCR) for the detection of food-borne pathogens — General requirements and definitions*

ISO 22174, *Microbiology of food and animal feeding stuffs — Polymerase chain reaction (PCR) for the detection of food-borne pathogens — General requirements and definitions*

The following Technical Specification is in preparation:

ISO/TS 13136, *Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) belonging to O157, O111, O26, O103 and O145 serogroups — Qualitative real-time polymerase chain reaction (PCR)-based method*