



SLOVENSKI STANDARD SIST EN ISO 22174:2024

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Nadomešča:
SIST EN ISO 22174:2005

Mikrobiologija v prehranski verigi - Polimerazna verižna reakcija (PCR) za ugotavljanje prisotnosti in kvantifikacijo mikroorganizmov - Splošne zahteve in definicije (ISO 22174:2024)

Microbiology of the food chain - Polymerase chain reaction (PCR) for the detection and quantification of microorganisms - General requirements and definitions (ISO 22174:2024)

Mikrobiologie der Lebensmittelkette - Polymerase-Kettenreaktion (PCR) zum Nachweis von Mikroorganismen - Allgemeine Anforderungen und Definitionen (ISO 22174:2024)

Microbiologie de la chaîne alimentaire - Réaction de polymérisation en chaîne (PCR) pour la recherche et la quantification de micro-organismes - Exigences générales et définitions (ISO 22174:2024)

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Microbiology of the food chain - Polymerase chain reaction
(PCR) for the detection and quantification of
microorganisms - General requirements and definitions
(ISO 22174:2024)

Microbiologie de la chaîne alimentaire - Réaction de
polymérisation en chaîne (PCR) pour la recherche et la
quantification de micro-organismes - Exigences
générales et définitions (ISO 22174:2024)

Mikrobiologie der Lebensmittelkette - Polymerase-
Kettenreaktion (PCR) zum Nachweis von
Mikroorganismen - Allgemeine Anforderungen und
Definitionen (ISO 22174:2024)

This European Standard was approved by CEN on 21 July 2024.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 22174:2024) 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 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of an identical text or by endorsement, at the latest by March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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International Standard

ISO 22174

Microbiology of the food chain — Polymerase chain reaction (PCR) for the detection and quantification of microorganisms — General requirements and definitions

*Microbiologie de la chaîne alimentaire — Réaction de
polymérisation en chaîne (PCR) pour la recherche et la
quantification de micro-organismes — Exigences générales et
définitions*

**Second edition
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Foreword

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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 document 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).

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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).

This second edition cancels and replaces ISO 22174:2005, ISO 20837:2006, ISO 20838:2006 and ISO 22119:2011, which have been technically revised.

The main changes are as follows:

- inclusion of requirements for the implementation of digital PCR;
- inclusion of requirements for laboratory flows monitoring including environmental monitoring for PCR;
- extension of [12.2.2](#) control reaction with descriptions of the different controls;
- change of [12.3](#) to include quantitative evaluation;
- inclusion of [Clause 14](#) on validation and verification.

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