



SLOVENSKI STANDARD SIST EN ISO 17174:2024

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Nadomešča:

SIST-TS CEN/TS 17303:2019

Analiza molekularnih biomarkerjev - Črtno kodiranje DNK rib in ribjih proizvodov z uporabo definiranih mitohondrijskih segmentov genov citokroma b in citokroma c oksidaze I (ISO 17174:2024)

Molecular biomarker analysis - DNA barcoding of fish and fish products using defined mitochondrial cytochrome b and cytochrome c oxidase I gene segments (ISO 17174:2024)

Untersuchung auf molekulare Biomarker - DNA-Barcoding von Fisch und Fischprodukten anhand definierter mitochondrialer Cytochrom b- und Cytochrom c-Oxidase I-Genabschnitte (ISO 17174:2024)

Analyse de biomarqueurs moléculaires - Codes-barres d'ADN de poissons et de produits à base de poisson à l'aide de segments de gènes mitochondriaux de cytochrome b et cytochrome c oxydase I (ISO 17174:2024)

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Molecular biomarker analysis - DNA barcoding of fish and fish products using defined mitochondrial cytochrome b and cytochrome c oxidase I gene segments (ISO 17174:2024)

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European foreword

This document (EN ISO 17174:2024) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 460 "Food Authenticity" 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of an identical text or by endorsement, at the latest by March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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The text of ISO 17174:2024 has been approved by CEN as EN ISO 17174:2024 without any modification.



**International
Standard**

ISO 17174

**Molecular biomarker analysis —
DNA barcoding of fish and
fish products using defined
mitochondrial cytochrome b
and cytochrome c oxidase I gene
segments**

*Analyse de biomarqueurs moléculaires — Codes-barres d'ADN de
poissons et de produits à base de poisson à l'aide de segments de
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee 34, *Food products*, Subcommittee SC 16, *Horizontal methods for molecular biomarker analysis*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 460, *Food authenticity*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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ISO 17174:2024(en)**Introduction**

Food safety is a key aspect in terms of consumer protection. In the last three decades, globalization has taken place in the trade of food. Fish trade channels are becoming steadily longer and more complicated so that sophisticated traceability tools are needed to ensure food safety. Correct food labelling is a prerequisite to ensure safe fish products and fair trade as well as to minimize illegal, unreported and unregulated (IUU) fishing. In particular, the fact that fish is increasingly being processed in export countries makes the identification of species by morphological characteristics impossible. The development of reliable, harmonized and standardized protocols for the authentication of fish products is necessary to ensure consumer protection and the detection of potential food fraud.

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