SLOVENSKI STANDARD
SIST EN ISO 6579-4:2025

01-april-2025

Mikrobiologija v prehranski verigi - Horizontalna metoda za ugotavljanje prisotnosti, štetja in serotipizacije Salmonella - 4. del: Identifikacija monofazne Salmonella Typhimurium (1,4,[5],12:i:-) s polimerazno verižno reakcijo (PCR) (ISO 6579-4:2025)

Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 4: Identification of monophasic Salmonella Typhimurium (1,4,[5],12:i:-) by polymerase chain reaction (PCR) (ISO 6579-4:2025)

Mikrobiologie der Lebensmittelkette - Horizontales Verfahren zum Nachweis von Salmonella spp. - Teil 4: Identifizierung von monophasischen Salmonella Typhimurium (1,4,[5],12:i:-) durch Polymerase□Kettenreaktion (PCR) (ISO 6579-4:2025)

Microbiologie de la chaîne alimentaire - Méthode horizontale pour la recherche, le dénombrement et le sérotypage des Salmonella - Partie 4: Identification du variant monophasique de Salmonella Typhimurium (1,4,[5],12:i:-) par réaction de polymérisation en chaîne (PCR) (ISO 6579-4:2025)

Ta slovenski standard je istoveten z: **EN ISO 6579-4:2025**

ICS:

07.100.30	Mikrobiologija živil	Food microbiology

SIST EN ISO 6579-4:2025 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 6579-4

February 2025

ICS 07.100.30

English Version

Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 4: Identification of monophasic Salmonella Typhimurium (1,4,[5],12:i:-) by polymerase chain reaction (PCR) (ISO 6579-4:2025)

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Mikrobiologie der Lebensmittelkette - Horizontales Verfahren zum Nachweis, zur Zählung und zur Serotypisierung von Salmonellen - Teil 4: Identifizierung von monophasischen Salmonella Typhimurium (1,4,[5],12:i:-) durch Polymerase-Kettenreaktion (PCR) (ISO 6579-4:2025)

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European foreword

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The text of ISO 6579-4:2025 has been approved by CEN as EN ISO 6579-4:2025 without any modification.

International Standard

ISO 6579-4

First edition
2025-01

Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of *Salmonella* —

Part 4: Identification of monophasic *Salmonella* Typhimurium (1,4,[5],12:i:-) by polymerase chain reaction (PCR)

Microbiologie de la chaîne alimentaire — Méthode horizontale pour la recherche, le dénombrement et le sérotypage des Salmonella —

Partie 4: Identification du variant monophasique de Salmonella *Typhimurium (1,4,[5],12:i:-) par réaction de polymérisation en chaîne (PCR)*

Reference number
ISO 6579-4:2025(en)

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Published in Switzerland

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Foreword

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This document was prepared by Technical Committee ISO/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).

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Introduction

In several international, regional and national laws, regulatory limits are set to ensure the so-called "absence" of *Salmonella* spp. in samples of the food chain. Moreover, several European Commission (EC) regulations also demand the absence of particular *Salmonella* serovars which have shown to cause a relatively high percentage of human salmonellosis. One of these *Salmonella* serovars for which legal criteria are set is *Salmonella* Typhimurium, including its monophasic variant 1,4,[5],12:i:- (e.g. Regulation (EC) No. 1086/2011[10]). Hence, it is important to know that a serovar found with antigenic formula 1,4,[5],12:i:- is indeed the monophasic variant of *Salmonella* Typhimurium (1,4,[5],12:i:1,2) and not the monophasic variant of another *Salmonella* (*S.*) serovar for which no criteria are set, such as *S*. Lagos (1,4,[5],12:i:1,5), *S*. Agama (4,12:i:1,6), *S.* Farsta (4,[5],12:i:e,n,x), *S*. Tsevie (1,4,12:i:e,n,z_{15}), *S.* Gloucester (1,4,12,27:i:l,w) or *S*. Tumodi (1,4,12:i:z_6). Confirmational distinction between *Salmonella* Typhimurium and *Salmonella* non-Typhimurium serovars can be determined using molecular analysis, such as the PCR technique(s) described in this document.