SLOVENSKI STANDARD
SIST EN ISO 11133:2014/oprA2:2018

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Mikrobiologija živil, krme in vode - Priprava, izdelava, skladiščenje in preskušanje lastnosti gojišč - Dopolnilo A2 (ISO 11133:2014/DAmd 2:2017)

Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media - Amendment 2 (ISO 11133:2014/DAmd 2:2017)

Mikrobiologie von Lebensmitteln, Futtermitteln und Wasser - Vorbereitung, Herstellung, Lagerung und Leistungsprüfung von Nährmedien (ISO 11133:2014/DAM 2:2017)

Microbiologie des aliments, des aliments pour animaux et de l'eau - Préparation, production, stockage et essais de performance des milieux de culture - Amendement 2 (ISO 11133:2014/DAmd 2:2017)

Ta slovenski standard je istoveten z: **EN ISO 11133:2014/prA2**

ICS:

07.100.30	Mikrobiologija živil	Food microbiology

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DRAFT AMENDMENT
ISO 11133:2014/DAM 2

ISO/TC **34**/SC **9**

Secretariat: **AFNOR**

Voting begins on:
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2018-03-06

Microbiology of food, animal feed and water — Preparation, production, storage and performance testing of culture media

AMENDMENT 2

Microbiologie des aliments, des aliments pour animaux et de l'eau — Préparation, production, stockage et essais de performance des milieux de culture

AMENDEMENT 2

ICS: 07.100.20; 07.100.30

Member bodies are requested to consult relevant national interests in ISO/TC 147/SC 4 before casting their ballot to the e-Balloting application.

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

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Foreword

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The committee responsible for this document is ISO/34, *Food products*, Subcommittee SC 9, *Microbiology*.

Microbiology of food, animal feed and water — Preparation, production, storage and performance testing of culture media

AMENDMENT 2

Annex K
(normative)

Performance testing of confirmation media and reagents

K.1 General

This Annex specifies control strains for the performance testing of confirmation and characterization media, reagents, dyes, stains and materials described in standards for the microbiological examination of samples from the food chain and water.

For the microbiological media and reagents under test, the inoculum used is a subculture of an isolated colony. Therefore the method of performance testing for these products is qualitative.

The shortest permissible incubation time in the International Standard should be used for the positive control organism(s), whilst the longest permissible incubation time should be used for the negative control organisms.

The strains chosen in Table K.1 have been selected preferentially from those already cited in ISO 11133:2014. If a suitable strain was not available from this source, a strain from the catalogue of organisms compiled by the World Data Centre for Microorganisms (WDCM)[20] has been selected.

In most cases, more than one control strain has been listed in Table K1 for both positive and negative reactions. The user may choose any of the strains cited for positive and negative reactions. Refer to the relevant standard for the expected results for the target organism.

If control strains for performance testing of confirmation media and reagents are already specified in the International Standard, for example as in ISO 10272 (*Campylobacter)* and ISO 10273 (*Yersinia enterocolitica*), they have not been included in Table K.1. In addition, serological reagents have not been included.

If commercially-sourced media or reagents are used, follow the manufacturer's instructions, including time, temperature and conditions of performance. If the instructions do not include control strains, choose a positive and a negative strain from Table K.1.

Table A.1 — Control strains for confirmation media and reagents included in ISO standards from ISO/TC 34/SC 9, ISO/TC34/SC 5 and ISO/TC 147/SC 4

Confirmation medium/ reagent	ISO Standard	Function	Control strains[a]	WDCM[b] numbers	Characteristic reactions
Acetamide broth with Nessler's reagent	16266	Detection of ammonia production from acetamide	*Pseudomonas aeruginosa*	00024 00025 00026	Positive reaction: Yellow to brick red after adding 1-2 drops of Nessler's reagent
			Escherichia coli	00012 00013 00090 00179	Negative reaction: No yellow to brick red colour
Acetate agar (Sodium acetate agar)	21567	Growth on acetate	*Escherichia coli*	00012 00013 00179 00090	Positive reaction: Blue colonies with surrounding medium blue/ green
			Shigella.sonnei *Shigella flexneri*	00127 00125	Negative reaction: No growth or very weak growth, no colour change of the medium (remains green)
Acid phosphatase reagent	14189	Detection of acid phosphatase	*Clostridium perfringens*	00007 00080 00174	Positive reaction: Purplish colour
			Clostridium bifermentans	00079	Negative reaction: No purplish colour
Arginine dihydrolase saline medium	21872	Detection of L-Arginine dihydrolase	*Vibrio fluvialis*	00137	Positive reaction: turbidity and violet/purple colour
			Vibrio parahaemolyticus	00037 00185	Negative reaction: yellow colour
Bile-aesculin-azide agar	7899-2	Detection of aesculin hydrolysis	*Enterococcus faecalis* *Enterococcus faecium*	00009 00087 00176 00177 00178	Positive reaction: Tan to black colour in the surrounding medium
			Aerococcus viridans *Escherichia coli*	00061 00012 00013 00090 00179	Negative reaction: No tan to black colour in the surrounding medium

a Strain free of choice

b Make reference to the reference strain catalogue available on http://www.wfcc.info for information on culture collection strain numbers and contact details [20]

c Some national restrictions and directions may require the use of a different serovar. Make reference to national requirements relating to the choice of *Salmonella* serovars

d Non-toxigenic strain of *E.coli* serotype O157

e Weak coagulase - producing strain of *S.aureus*

Table A.1 *(continued)*

Confirmation medium/ reagent	ISO Standard	Function	Control strains[a]	WDCM[b] numbers	Characteristic reactions
CAMP medium with *Staphylococcus aureus* WDCM 00034 and *Rhodococcus equi* WDCM 00028	11290-1 11290-2	Detection of CAMP reaction	*Listeria monocytogenes*	00020 00021	Positive reaction: Enhanced zone of β-haemolysis at the intersection of the test strain with each of the cultures of *Staphylococcus aureus* and *Rhodococcus equi*
			Listeria ivanovii *L.innocua*	00018 00017	Negative reaction: No enhanced zone No zone
Carbohydrate utilization broths with different carbohydrates and different indicators	11290-1 11290-2 21567 10273 22964	Detection of carbohydrate fermentation	*Escherichia coli*	00012 00013 00090 000179	Positive reaction: Change of colour to yellow
			Proteus mirabilis	00123	Negative reaction: no change in colour
Catalase reagent (3 % hydrogen peroxide solution)	9232 10272-1 10272-2 11290-1 11290-2	Detection of catalase after adding hydrogen peroxide solution	*Staphylococcus aureus* *Campylobacter jejuni* *Listeria monocytogenes* *Listeria innocua* *Listeria ivanovii*	00032 00034 00090 00005 00020 00021 00017 00018	Positive reaction: Formation of bubbles of oxygen
			E.faecalis *Enterococcus faecium* *Lactobacillus delbreuckii ssp. bulgaricus*	00009 00087 00176 00177 00178 00121	Negative reaction: No formation of bubbles of oxygen
Citrate agar (Christensen's citrate agar)	21567	Growth on citrate	*Enterobacter aerogenes* *Enterobacter cloacae*	00175 00083	Positive reaction: cream/pink growth with surrounding medium red
			Shigella sonnei *Shigella flexneri*	00127 00125 00126	Negative reaction: No growth
Glucose agar O-F medium with overlay	11059 21528-1 21528-2	Production of acid from glucose	*Escherichia coli*	00012 00013 00090 00179	Positive reaction: Yellow colour
			Pseudomonas aeruginosa *Pseudomonas fluorescens*	00025 00115	Negative reaction: growth, but no yellow colour development

a Strain free of choice

b Make reference to the reference strain catalogue available on http://www.wfcc.info for information on culture collection strain numbers and contact details [20]

c Some national restrictions and directions may require the use of a different serovar. Make reference to national requirements relating to the choice of *Salmonella* serovars

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