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**Mikrobiologija živil in krme - Horizontalna metoda za ugotavljanje Escherichia coli O157 - Dopolnilo 2: Vključitev preskušanja učinkovitosti gojišč in reagentov (ISO 16654:2001/DAM 2:2022)**

Microbiology of food and animal feeding stuffs - Horizontal method for the detection of Escherichia coli O157 - Amendment 2: Inclusion of performance testing of culture media and reagents (ISO 16654:2001/DAM 2:2022)

Mikrobiologie von Lebensmitteln und Futtermitteln - Horizontales Verfahren für den Nachweis von Escherichia coli O157 - Änderung 2: Aufnahme der Leistungsprüfung von Nährmedien und Reagenzien (ISO 16654:2001/DAM 2:2022)

Microbiologie des aliments - Méthode horizontale pour la recherche des Escherichia coli O157 - Amendement 2: Inclusion de tests de performance des milieux de culture et des réactifs (ISO 16654:2001/DAM 2:2022)

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**ICS:**

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# DRAFT AMENDMENT ISO 16654:2001/DAM 2

ISO/TC 34/SC 9

Secretariat: AFNOR

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## Microbiology of food and animal feeding stuffs — Horizontal method for the detection of *Escherichia coli* O157

### AMENDMENT 2: Inclusion of performance testing of culture media and reagents

*AMENDEMENT 2: Titre manque*

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This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 463, *Microbiology of the food chain*, in collaboration with ISO Technical Committee 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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# Microbiology of food and animal feeding stuffs — Horizontal method for the detection of *Escherichia coli* O157

## AMENDMENT 2: Inclusion of performance testing of culture media and reagents

### 5.1

Replace the text with the following:

For current laboratory practice, see ISO 7218 and ISO 11133.

The general specifications of ISO 11133 are applicable to the preparation and performance testing of the culture media described in this clause. If culture media or reagents are prepared from dehydrated complete media/reagents or if ready-to-use media/reagents are used, follow the manufacturer's instructions regarding preparation, storage conditions, expiry date and use.

The shelf life of the media and reagents indicated in this clause has been determined in some studies. The user shall verify these under their own storage conditions (in accordance with ISO 11133).

Performance testing of culture media and reagents is described in 5.11.

Clause 5., after 5.10

Add the following text as a new subclause.

### 5.11 Performance testing

The definitions of productivity, selectivity and specificity are specified in ISO 11133. In general, follow the procedures for performance testing described in ISO 11133.

**Table 1 — Performance testing for the quality assurance of the culture media and reagents**

Medium	Function	Incubation	Control strains	WDCM numbers <sup>a</sup>	Criteria <sup>b</sup>
mTSB + N	Productivity	6 h/ (41,5 ± 1) °C	<i>Escherichia coli</i> O157:H7 + <i>Staphylococcus aureus</i> <sup>d</sup>	00014 (non-toxigenic strain) 00032 or 00034	> 10 characteristic colonies on CT-SMAC or other medium of choice (characteristic appearance of the colonies should refer to the different media used)
	Selectivity	(21 ± 3) h/ (41,5 ± 1) °C	<i>Staphylococcus aureus</i> <sup>d</sup>	00032 or 00034	Total inhibition (0) on TSA
<sup>a</sup> Refer to the reference strain catalogue on <a href="http://www.wfcc.info">http://www.wfcc.info</a> for information on culture collection strain numbers and contact details; WDCM: World Data Centre for Microorganisms.					
<sup>b</sup> Growth is categorized as 0: no growth; 1: weak growth (partial inhibition); 2: good growth (see ISO 11133).					
<sup>c</sup> Some national restrictions and directions may require the use of a different serovar. Make reference to national requirements relating to the choice of <i>Salmonella</i> serovar(s).					
<sup>d</sup> Strain free of choice; one of the strains has to be used as a minimum.					