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Microbiology of food and animal feeding stuffs - Guidelines on preparation and production of culture media - Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory (ISO/TS 11133-1:2009)

Mikrobiologie von Lebensmitteln und Futtermitteln - Anleitungen für die Zubereitung und Herstellung von Nährmedien - Teil 1: Allgemeine Anleitungen für die Qualitätssicherung bei der Zubereitung von Nährmedien im Laboratorium (ISO/TS 11133-1:2009)

Microbiologie des aliments - Lignes directrices pour la préparation et la production des milieux de culture - Partie 1: Lignes directrices générales d'assurance qualité pour la préparation des milieux de culture en laboratoire (ISO/TS 11133-1:2009)

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07.100.30 Mikrobiologija živil Food microbiology

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CEN ISO/TS 11133-1

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Microbiology of food and animal feeding stuffs - Guidelines on preparation and production of culture media - Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory (ISO/TS 11133-1:2009)

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This Technical Specification (CEN/TS) was approved by CEN on 23 June 2008 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Contents	Page
Foreword.....	3

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[SIST-TS CEN ISO/TS 11133-1:2009](https://standards.iteh.ai/catalog/standards/sist/2430af3f-7d8f-4a78-b216-fd4db14b16c9/sist-ts-cen-iso-ts-11133-1-2009)
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Foreword

This document (CEN ISO/TS 11133-1:2009) has been prepared by Technical Committee CEN/TC 275 "Food analysis - Horizontal methods", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 34 "Agricultural food products".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes ENV ISO 11133-1:2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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**Microbiology of food and animal feeding
stuffs — Guidelines on preparation and
production of culture media —**

Part 1:

**General guidelines on quality assurance
for the preparation of culture media in the
laboratory**

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*Microbiologie des aliments — Lignes directrices pour la préparation et
la production des milieux de culture —*

SIST-TS CEN ISO/TS 11133-1:2009

<https://standards.iteh.ai/catalog/standards/sist-ts/cen-iso-ts-11133-1-2009> *Partie 1: Lignes directrices générales d'assurance qualité pour la
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Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	1
3.1 General.....	1
3.2 Culture media	2
3.3 Test microorganisms.....	5
4 Quality assurance of culture media	5
4.1 Documentation	5
4.2 Storage.....	6
4.3 Laboratory preparation of media	7
4.4 Preparation for use	9
4.5 Disposal of media	10
5 Preservation and maintenance of control strains	10
5.1 General.....	10
5.2 Control strains from commercial sources	10
5.3 Laboratory-prepared reference stocks.....	10
5.4 Stock cultures	10
5.5 Working cultures.....	11
6 Performance testing of finished culture media	11
6.1 General.....	11
6.2 Physical quality control	11
6.3 Microbiological quality control.....	11
Annex A (informative) Designation of the components of the culture media in standards on microbiological analysis of food and animal feeding stuffs	13
Annex B (informative) Preparation of reference stock and working culture.....	15
Annex C (informative) Quality assurance of culture media — Troubleshooting	17
Bibliography	18

ISO/TS 11133-1:2009(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TS 11133-1 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 275, *Food analysis — Horizontal methods*, in collaboration with Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 9, *Microbiology*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/TS 11133-1:2000), which has been technically revised.

ISO/TS 11133 consists of the following parts, under the general title *Microbiology of food and animal feeding stuffs — Guidelines on preparation and production of culture media*:

- *Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory*
- *Part 2: Practical guidelines on performance testing of culture media*

Introduction

Culture media are used in all traditional culture techniques and also for many alternative techniques. In the microbiology laboratory, many tests and procedures depend upon culture media being consistent and providing reproducible results. Many formulations of dehydrated culture media are commercially available and many more, designed for specific growth purposes, are described in the literature. In laboratories carrying out microbiological examinations of foods and feedstuffs, the main objectives are to maintain, resuscitate, grow, detect and/or enumerate a wide variety of microorganisms. The requirements for media are specific to both the sample and the organisms to be detected. Culture media meeting established or minimal performance criteria are therefore a prerequisite for any reliable microbiological work. Sufficient testing should be carried out to demonstrate: i) the acceptability of each batch of medium; ii) that the medium is “fit for purpose”; and iii) that the medium can produce consistent results.

These three criteria are an essential part of internal quality control procedures and, with appropriate documentation, will permit effective monitoring of culture media and contribute to the production of both accurate and precise data.

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