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

AMENDMENT 1

*Microbiologie des aliments, des aliments pour animaux et de l'eau —
Préparation, production, stockage et essais de performance des
milieux de culture*
AMENDEMENT 1

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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This document was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 9, *Microbiology*, in collaboration with Technical Committee ISO/TC 147 *Water quality*, Subcommittee SC 4, *Microbiological methods*.

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

AMENDMENT 1

Introduction

Add the following text as the last paragraph:

When specific standards are revised and new standards developed, they will include a paragraph for performance testing of the culture media used in the standard.

Scope

Replace the last paragraph with the following:

This document also sets criteria and describes methods for the performance testing of culture media. This document is applicable to end-users of ready-to-use media and to producers such as

- commercial bodies producing and/or distributing ready-to-use or semi-finished reconstituted or dehydrated media,
- non-commercial bodies supplying media to third parties, and
- microbiological laboratories preparing culture media for their own use.

3.2.6, electivity of culture medium

Replace the definition with the following:

demonstration, under defined conditions, that non-target organisms, if able to grow on the medium, do not show the same visual characteristics as target microorganisms

4.3.1 General

Add the following text as the third paragraph:

When a formula indicates an ingredient in hydrated form (e.g. $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$ for BPW in ISO 6887-1) it can be replaced by an anhydrous or hydrated ingredient with a different number of water molecules, as long as the final quantity of the ingredient takes account of this difference by calculation of the molar mass.

4.3.8.1 General

Replace the last sentence with the following:

In all cases, make reference to the appropriate International Standard or the manufacturer's instructions.

5.4.2.5.1.1 Quantitative testing

Replace the first two paragraphs with the following:

For the quantitative enumeration test, a level of approximately 100 cfu is necessary to achieve sufficient precision (see Table 1). This can necessitate the use of more than one plate.

A practicable range of 80 cfu to 120 cfu per plate with a minimum number of 50 cfu per plate should be used. The use of more than one plate will increase the precision. For filters, the same number of cfu is needed using one or more filters. Table 1 shows the 95 % confidence intervals associated with colony counts.

5.4.2.5.1.2 Qualitative testing

Replace the part of the sentence introducing the list with the following:

The volume of suspension used for testing should contain

5.4.2.5.2 Inoculum level for selectivity testing

Replace the sentence with the following:

For selectivity testing of culture media, a suspension of the non-target microorganism containing at least 10^4 cfu is inoculated on to the plate or into the tube of medium.

5.4.2.5.3 Inoculum level for specificity testing

Replace the sentence with the following:

For qualitative tests of plate media, for specificity an inoculum level of at least 10^3 cfu is needed.

7.3 Testing of culture media used for membrane filtration

Add the following text as the last paragraph:

When testing with membrane filters, if the criteria in Table F1 are not achieved, the laboratory should assess the discrepancies between the results.

8.3.2 Procedure

Replace the fourth list item with the following:

- **Inoculation of non-target microorganisms:** Inoculate one tube of test broth per microorganism with an inoculum containing a higher number (at least 10^4 cfu) and mix.