International Standard

ISO 8553

IDF 131

Milk — Enumeration of microorganisms — Plate-loop technique at 30 °C

Lait — Dénombrement des micro-organismes — Méthode de l'anse calibrée en boîtes de Petri à 30 °C

Second edition
2026-11

Sample Document
get full document from standards.iteh.ai

Reference numbers
ISO 8553:2026(en)
IDF 131:2026(en)

© ISO and IDF 2026

ISO 8553:2026 • https://standards.iteh.ai/catalog/standards/iso/79d389d8-67ce-4004-a6d4-b40222123894/iso-8553-2026

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO and IDF 2026

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11

Email: copyright@iso.org
Website: www.iso.org

International Dairy Federation
Silver Building • Bd Auguste Reyers 70/B
B-1030 Brussels
Phone: +32 2 325 67 40
Fax: +32 2 325 67 41
Email: info@fil-idf.org
Website: www.fil-idf.org

Published in Switzerland

ISO 8553:2026 • https://standards.iteh.ai/catalog/standards/iso/79d389d8-67ce-4004-a6d4-b40222123894/iso-8553-2026

Contents

Page

Foreword ..... **iv**
Introduction ..... **vi**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Principle **1**
5 Culture media and reagents **2**
6 Equipment and consumables **2**
7 Sampling **3**
8 Preparation of test sample **4**
9 Procedure **4**
9.1 General 4
9.2 Preparation of the test portion 4
9.3 Preparation of loop inoculation equipment 4
9.4 Inoculation and incubation 4
9.5 Counting of colonies 5
10 Expression of results **5**
10.1 Method of calculation 5
10.2 Precision 5
10.2.1 General 5
10.2.2 Repeatability 6
11 Test report **6**
12 Quality assurance **6**
Annex A (informative) **Flow diagram of the main steps of the procedure** **7**
Annex B (normative) **Culture media and reagents** **8**
Bibliography **10**

Sample Document
get full document from standards.iteh.ai

© ISO and IDF 2026 – All rights reserved

ISO 8553:2026 • https://standards.iteh.ai/catalog/standards/iso/79d389d8-67ce-4004-a6d4-b40222123894/iso-8553-2026

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

Sample Document

This document was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF). It is being published jointly by ISO and IDF.

This second edition cancels and replaces the first edition (ISO 8553 | IDF 131:2004), which has been technically revised.

get full document from standards.iteh.ai

The main changes are as follows:

— the normative references have been updated;

— the description of the procedure has been adapted to that specified by ISO 4833-1;

— the expression of results has been changed to be in accordance with ISO 7218;

— a flow diagram of the main steps of the procedure has been included in Annex A;

— the performance testing of the culture medium, milk plate count agar (MPCA), has been introduced;

— the Bibliography has been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

© ISO and IDF 2026 – All rights reserved

ISO 8553:2026 • https://standards.iteh.ai/catalog/standards/iso/79d389d8-67ce-4004-a6d4-b40222123894/iso-8553-2026

IDF (the International Dairy Federation) is a non-profit private sector organization representing the interests of various stakeholders in dairying at the global level. IDF members are organized in National Committees, which are national associations composed of representatives of dairy-related national interest groups including dairy farmers, dairy processing industry, dairy suppliers, academics and governments/ food control authorities.

ISO and IDF collaborate closely on all matters of standardization relating to methods of analysis and sampling for milk and milk products. Since 2001, ISO and IDF jointly publish their International Standards using the logos and reference numbers of both organizations.

IDF draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IDF takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IDF had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. IDF shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

This document was prepared by the IDF *Standing Committee on Methods for Dairy Microbiology* and ISO Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products.* It is being published jointly by ISO and IDF.

The work was carried out by the IDF/ISO Action Team (H24) of the *Standing Committee on Methods for Dairy Microbiology* under the aegis of its project leader Barbara Gerten (DE).

Sample Document

get full document from standards.iteh.ai

© ISO and IDF 2026 – All rights reserved

ISO 8553:2026 • https://standards.iteh.ai/catalog/standards/iso/79d389d8-67ce-4004-a6d4-b40222123894/iso-8553-2026