EESTI STANDARD EVS-EN ISO 21149:2017+A1:2022

Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017 + ISO 21149:2017/Amd 1:2022)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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See Eesti standard EVS-EN ISO 21149:2017 +A1:2022 sisaldab Euroopa standardi EN ISO 21149:2017 ja selle muudatuse A1:2022 ingliskeelset teksti.	ThisEstonianstandardEVS-EN ISO 21149:2017+A1:2022 consists of theEnglishtextoftheEuropeanstandardEN ISO 21149:2017 and its amendment A1:2022.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.		
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.06.2017, muudatus A1 28.09.2022.	Date of Availability of the European standard is 21.06.2017, for A1 28.09.2022.		
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega 🎒 🏾 (A1].	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags (A1) (A1).		
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.		
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ICS 71.100.70; 07.100.99

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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN ISO 21149 + A1

June 2017, September 2022

ICS 71.100.70; 07.100.99

Supersedes EN ISO 21149:2009

English Version

Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017 + ISO 21149:2017/Amd 1:2022)

Cosmétiques - Microbiologie - Dénombrement et détection des bactéries aérobies mésophiles (ISO 21149:2017 + ISO 21149:2017/Amd 1:2022)

Kosmetische Mittel - Mikrobiologie - Zählung und Nachweis von aeroben mesophilen Bakterien (ISO 21149:2017 + ISO 21149:2017/Amd 1:2022)

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Ref. No. EN ISO 21149:2017 E + EN ISO 21149:2017/A1:2022 E

European foreword

This document (EN ISO 21149:2017) has been prepared by Technical Committee ISO/TC 217 "Cosmetics" in collaboration with Technical Committee CEN/TC 392 "Cosmetics" the secretariat of which is held by AFNOR.

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The text of ISO 21149:2017 has been approved by CEN as EN ISO 21149:2017 without any modification.

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This document (EN ISO 21149:2017/A1:2022) has been prepared by Technical Committee ISO/TC 217 "Cosmetics" in collaboration with Technical Committee CEN/TC 392 "Cosmetics" the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN ISO 21149:2017 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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Endorsement notice

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Foreword

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This document was prepared by Technical Committee ISO/TC 217, Cosmetics.

This second edition cancels and replaces the first edition (ISO 21149:2006), of which it constitutes a minor revision with the following changes:

- in the Scope, "validated" has been changed to "shown to be suitable";
- in the Scope, "see ISO 29621" has been added and the reference has been added to the Bibliography;
- in 4.1, "validated" has been changed to "demonstrated";
- in 4.3, "validated" has been changed to "described";
- in 5.1, "specifications" has been changed to "instructions";
- in 9.3.2.1, 9.3.2.2 and 9.3.2.3, "validated" has been changed to "described";
- in 9.3.2.3, "procedure developed during the validation" has been changed to "suitability test procedure";
- in 9.4.1, "validation" has been changed to "suitability test";
- in 12.2.1, "validated according to the chosen method" has been changed to "demonstrated to be suitable for the chosen method";
- in 13.3 and 13.4, "validation" has been changed to "suitability";

- in 13.3.2, 13.3.3 and 13.3.4, "validation" has been changed to "suitability";
- in 13.3.2, 13.3.3 and 13.3.4, "if the validation count is at least 50 % (0,3 log) of the control count" has been changed to "if the count is at least 50 % of the control";
- in 13.4.1, instances of "validation test" have been changed to "suitability test";
- in 13.4.2, instances of "validation plate" have been changed to "suitability test plate";
- in 13.5, "validation results" has been changed to "suitability test results" and "validation plates" has been changed to "suitability test plates";
- in Clause 14 f), "validation of the method" has been changed to "demonstration of the suitability";
- has be. in A.1, B.1 and C.1, "validated" has been changed to "demonstrated to be suitable".

An Amendment A1 foreword

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This document was prepared by Technical Committee ISO/TC 217, *Cosmetics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 392, *Cosmetics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Cosmetics — Microbiology — Enumeration and detection of aerobic mesophilic bacteria

1 Scope

This document gives general guidelines for enumeration and detection of aerobic mesophilic bacteria present in cosmetics

- by counting the colonies on agar medium after aerobic incubation, or
- by checking the absence of bacterial growth after enrichment.

Because of the large variety of cosmetic products within this field of application, this method may not be appropriate for some products in every detail (e.g. certain water immiscible products). Other methods (e.g. automated) may be substituted for the tests presented here provided that their equivalence has been demonstrated or the method has been otherwise shown to be suitable.

If needed, microorganisms enumerated or detected may be identified using suitable identification tests described in the standards given in the Bibliography.

In order to ensure product quality and safety for consumers, it is advisable to perform an appropriate microbiological risk analysis to determine the types of cosmetic products to which this document is applicable. Products considered to present a low microbiological risk (see ISO 29621) include those with low water activity, hydro-alcoholic products, extreme pH values, etc.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21148:2017, Cosmetics — Microbiology — General instructions for microbiological examination

EN 12353, Chemical disinfectants and antiseptics — Preservation of test organisms used for the determination of bactericidal (including Legionella), mycobactericidal, sporicidal, fungicidal and virucidal (including bacteriophages) activity

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <u>http://www.electropedia.org/</u>
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

aerobic mesophilic bacterium

mesophilic bacterium growing aerobically under the conditions specified in this document

Note 1 to entry: In the described conditions, other types of microorganisms (e.g. yeast, mould) can be detected.