Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.06.2017.	Date of Availability of the European standard is 21.06.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 07.100.99, 71.100.70

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EUROPEAN STANDARD

EN ISO 21149

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Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017)

Cosmétiques - Microbiologie - Dénombrement et détection des bactéries aérobies mésophiles (ISO 21149:2017) Kosmetische Mittel - Mikrobiologie - Zählung und Nachweis von aeroben mesophilen Bakterien (ISO 21149:2017)

This European Standard was approved by CEN on 26 April 2017.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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

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Endorsement notice

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

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Foreword

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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 documents 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).

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

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 <u>9.3.2.1</u>, <u>9.3.2.2</u> and <u>9.3.2.3</u>, "validated" has been changed to "described";
- in <u>9.3.2.3</u>, "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 <u>13.3.2</u>, <u>13.3.3</u> and <u>13.3.4</u>, "validation" has been changed to "suitability";
- in <u>13.3.2</u>, <u>13.3.3</u> and <u>13.3.4</u>, "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";
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 1, "validat.

 Ocumbent is a location of the control of th in <u>Clause 14</u> f), "validation of the method" has been changed to "demonstration of the suitability";
- in A.1, B.1 and C.1, "validated" has been changed to "demonstrated to be suitable".

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 http://www.electropedia.org/
- 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.