



BSI Standards Publication

Cosmetics — Microbiology — Detection of specified and non-specified microorganisms

National foreword

This British Standard is the UK implementation of EN ISO 18415:2017+A1:2022. It is identical to ISO 18415:2017, incorporating amendment 1:2022. It supersedes BS EN ISO 18415:2011, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee CW/217, Cosmetics.

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English Version

Cosmetics - Microbiology - Detection of specified and non-specified microorganisms (ISO 18415:2017)

Cosmétiques - Microbiologie - Détection des micro-organismes spécifiés et non spécifiés (ISO 18415:2017)

Kosmetische Mittel - Mikrobiologie - Nachweis von spezifizierten und nichtspezifizierten Mikroorganismen (ISO 18415:2017)

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European foreword

This document (EN ISO 18415:2017) 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of an identical text or by endorsement, at the latest by December 2017 and conflicting national standards shall be withdrawn at the latest by December 2017.

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Endorsement notice

The text of ISO 18415:2017 has been approved by CEN as EN ISO 18415:2017 without any modification.

European foreword to amendment 1

This document (EN ISO 18415:2017/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 18415:2017 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of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.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 to amendment 1

The text of ISO 18415:2017/Amd 1:2022 has been approved by CEN as EN ISO 18415:2017/A1:2022 without any modification.

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

This second edition cancels and replaces the first edition (ISO 18415:2007), of which it constitutes a minor revision with the following changes:

- in the Scope, “see ISO 29621” has been added and the reference has been added to the Bibliography;
- in the Scope, “used” has been changed to “substituted” and “validated” has been changed to “shown to be suitable”;
- in [3.8](#), the term “validated” has been changed to “demonstrated to be suitable”;
- in [Clause 4](#), the term “validated” has been changed to “demonstrated”;
- in [5.1](#), “specifications” has been changed to “instructions”;
- in [5.1](#), the phrase “are validated” has been changed to “have been demonstrated to be suitable”;
- in [5.2.1](#), [5.3.3.1](#), [11.3.1](#), [11.3.2](#), instances of the term “validation” and in the heading title of [11.3.3](#) have been changed to “suitability test”;
- in [11.3](#), the term “validation” in the heading title has been changed to “suitability”;
- in [11.3.3](#), instances of “validated” have been changed to “satisfactory”;
- in [Clause 12 f\)](#), the term “validation” has been changed to “demonstration of the suitability”.

Introduction

Microbiological examinations of cosmetic products are carried out according to an appropriate microbiological risk analysis in order to ensure their quality and safety for consumers.

Microbiological risk analysis depends on several parameters such as:

- potential alteration of cosmetic products;
- pathogenicity of microorganisms;
- site of application of the cosmetic product (hair, skin, eyes, mucous membranes);
- type of user (adults, children including under 3 years).

For cosmetics and other topical products, the detection of skin pathogens such as *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Candida albicans* may be relevant because they can cause skin or eye infection. The detection of other kinds of microorganisms might be of interest since these microorganisms (including indicators of faecal contamination e.g. *Escherichia coli*) suggest hygienic failure during manufacturing process.