

BSI Standards Publication

Cosmetics — Microbiology — Enumeration and detection of aerobic mesophilic bacteria



This is a preview. Click here to purchase the full publication.

BS EN ISO 21149:2017 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN ISO 21149:2017. It is identical to ISO 21149:2017. It supersedes BS EN ISO 21149:2009, which is withdrawn.

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

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2017 Published by BSI Standards Limited 2017

ISBN 978 0 580 95716 1

ICS 71.100.70; 07.100.99

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2017.

Amendments/corrigenda issued since publication

Date Text affected

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 21149

June 2017

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)

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.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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

All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

© 2017 CEN

Ref. No. EN ISO 21149:2017 E

This is a preview. Click here to purchase the full publication.

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.

This document supersedes EN ISO 21149:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

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

	Contents		
Fore	word		v
1	Scop	e	1
2	Norm	native references	1
3		is and definitions	
4	Principle		
	4.1	General	
	4.2	Plate count	
	4.3	Membrane filtration	
	4.4	Detection of bacteria by enrichment	
5	Dilue 5.1	ents, neutralizers and culture media General	
	5.1	Neutralizing diluents and diluents	
	5.3	Diluent for the bacterial suspension (tryptone sodium chloride solution)	
	5.4	Culture media	
6	Appa	ratus and glassware	7
7	Strain	ns of microorganisms	7
8	Hand	lling of cosmetic products and laboratory samples	7
9	Procedure		7
	9.1	General recommendation	
	9.2	Preparation of the initial suspension	
		9.2.1 General	
		9.2.2 Water-miscible products	
	9.3	Counting methods	
		9.3.1 Dilutions for counting methods	
		9.3.2 Plate-count methods	
	9.4	Enrichment	
		9.4.1 General 9.4.2 Incubation of the sample	
4.0	0	•	
10		ting of colonies (plate counts and membrane filtration methods)	
11		ction of growth (enrichment method)	
12	12.1	ession of results Method of calculation for plate count	
	12.1	Interpretation	
	12.3	Examples	
	12.4	Detection after enrichment	13
13	Neutralization of the antimicrobial properties of the product		13
	13.1	General	
	13.2	Preparation of inoculum	
	13.3	Suitability of counting methods 13.3.1 Principle	
		13.3.2 Suitability test of the pour-plate method	
		13.3.3 Suitability of the surface spread method	
		13.3.4 Suitability of the membrane filtration method	14
	13.4	Suitability of the detection method by enrichment	
		13.4.1 Procedure 13.4.2 Interpretation of results	
	13.5	Interpretation of suitability test results	
14		renort	16