

SLOVENSKI STANDARD SIST EN 14885:2019

01-januar-2019

Nadomešča:

SIST EN 14885:2015

Kemična razkužila in antiseptiki - Uporaba evropskih standardov za kemična razkužila in antiseptike

Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics

Chemische Desinfektionsmitte und Antiseptika - Anwendung Europäischer Normen für chemische Desinfektionsmittel und Antiseptika (Standards.iteh.ai)

Antiseptiques et désinfectants chimiques <u>+ Application</u> des Normes européennes sur les antiseptiques et désinfectants chimiques standards/sist/a1bb8cb8-be71-4164-9034-dfc9355d86e6/sist-en-14885-2019

Ta slovenski standard je istoveten z: EN 14885:2018

ICS:

11.080.20 Dezinfektanti in antiseptiki Disinfectants and antiseptics 71.100.35 Kemikalije za dezinfekcijo v Chemicals for industrial and

industriji in doma domestic disinfection

purposes

SIST EN 14885:2019 en,fr,de

SIST EN 14885:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 14885:2019

https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034-dfc9355d86e6/sist-en-14885-2019

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN 14885

November 2018

ICS 11.080.20; 71.100.35

Supersedes EN 14885:2015

English Version

Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics

Antiseptiques et désinfectants chimiques - Application des Normes européennes sur les antiseptiques et désinfectants chimiques

Chemische Desinfektionsmittel und Antiseptika -Anwendung Europäischer Normen für chemische Desinfektionsmittel und Antiseptika

This European Standard was approved by CEN on 12 October 2018.

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: Rue de la Science 23, B-1040 Brussels

Contents Page

Europ	ean foreword	4
Introd	luction	5
1	Scope	6
2	Normative references	7
3 3.1 3.2 3.3	Terms and definitions	8 10
4 4.1 4.2 4.3 4.3.1 4.3.2	Procedures for claiming activity	13 14 15 15
4.4 4.5	Chemical disinfectants and antiseptics for use in the veterinary area	
5	Precision of the test methods (Repetitions) dards/sist/a1bb8cb8-be71-4164-9034-	58
6	Proficiency testing	59
7	Minimum information for the user including labelling regarding efficacy claims and use recommendations	
8 8.1 8.2	Changes in European StandardsRevision of European StandardsImpact of changes of EN 14885 on other European Standards	60
Annex	A (informative) Recommendations on the use of terms and definitions in the area of disinfection and antisepsis	61
Annex	B (informative) Recommendations on claims of activity on the basis of tests additional to or other than the tests specified in this European Standard	63
Annex	c C (informative) Phase 3 tests	64
C.1	General	64
C.2	Comparison with phase 2 tests	64
C.3	Requirement for a phase 3 test	65
C.4	Scope of phase 3 tests	65
C.5	Safety	65
C.6	Design of a phase 3 test	66
C.7	Performance of a phase 3 test	67

C.8	Results of a phase 3 test	68
Biblio	graphy	69

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 14885:2019

https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034-dfc9355d86e6/sist-en-14885-2019

European foreword

This document (EN 14885:2018) has been prepared by Technical Committee CEN/TC 216 "Chemical disinfectants and antiseptics", 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 May 2019, and conflicting national standards shall be withdrawn at the latest by May 2019.

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 14885:2015.

EN 14885:2015 was revised to update the information on existing standards, to include standards published since 2015 and to give more details how to use the standards for making claims. CEN/TC 216 has prepared a series of standards on chemical disinfectants and antiseptics specifying requirements and test methods. The purpose of this European Standard is to specify the relationship of the various standards to one another and to claims and use recommendations.

To allow for different requirements in different areas of application, separate tests and pass criteria have been or will be prepared for each of the following three areas of application: medical, veterinary, and a group comprising food, industrial, domestic and institutional areas.

(standards.iteh.ai)

This European Standard only refers to test methods which are currently included in the work programme of CEN/TC 216 and which are described in Clause 2. It is likely that additional standards which relate to specific situations will be produced at a later time 8cb8-be71-4164-9034

dfc9355d86e6/sist-en-14885-2019

This document was revised to adapt it to the latest state of CEN/TC 216, to correct errors and ambiguities. The following is a list of significant changes since the last edition:

 inclusion of new and revised standards (EN 12791, EN 13727/A2, EN 14476/A1, EN 16615 and EN 16616).

The changes mentioned above have no impact on the use of test results obtained with reference to the former version of EN 14885.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

Introduction

This document specifies the laboratory methods to be used for testing the activity of products, i.e. chemical disinfectants and antiseptics in order to support claims that they have specific properties appropriate to their intended application. These laboratory methods may also be used for active substances and products under development. This document is not intended to represent disinfection policy guidelines, i.e. guidelines for choosing and assessing the suitability of products for particular situations.

The CEN standards relate to only a limited range of microbial species. These have been chosen as representative species taking into account their relative resistance and their relevance to practical use. The handling properties and the microbiological safety have also been considered in choosing the test organisms.

The test methods in this document are based on the current scientific state of the art. It is recognized that at the present time there is only limited knowledge regarding the relationship between the activity of products as determined by suspension as compared with surface tests, and the relevance of the results of both tests to conditions of use.

Chemical disinfectants and antiseptics should always be used responsibly. This should take into account the environmental impact of inappropriate product in-use concentrations (too high or too low) and of unnecessary use.

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 14885:2019</u> https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034-dfc9355d86e6/sist-en-14885-2019

Scope 1

This document specifies the European Standards to which products have to conform in order to support the claims for microbicidal activity which are referred to in this European Standard.

This document also specifies terms and definitions which are used in European Standards.

It is applicable to products for which activity is claimed against the following microorganisms: vegetative bacteria (including mycobacteria and Legionella), bacterial spores, yeasts, fungal spores and viruses (including bacteriophages).

It is intended to:

- a) enable manufacturers of products to select the appropriate standards to be used in order to provide data which support their claims for a specific product;
- b) enable users of the product to assess the information provided by the manufacturer in relation to the use for which they intend to use the product;
- assist regulatory authorities in assessing claims made by the manufacturer or by the person responsible for placing the product on the market.

It is applicable to products to be used in the area of human medicine, the veterinary area and in food, industrial, domestic and institutional areas.

In the area of human medicine, it is applicable to chemical disinfectants and antiseptics to be used in areas and situations where disinfection or antisepsis is medically indicated. Such indications occur in (stangargs.iten.ai) patient care:

- in hospitals, in community medical facilities and dental institutions,
- https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-in clinics of schools, of kindergartens and of nursing homes, 5-2019
- and may also occur in the workplace and in the home. It may also include services such as in laundries and kitchens supplying products directly for the patient.

In the veterinary area it is applicable to chemical disinfectants and antiseptics to be used in the areas of breeding, husbandry, veterinary care facilities, production, transport and disposal of animals. It is not applicable to chemical disinfectants used in the food chain following death and entry to the processing industry.

In food, industrial, domestic and institutional areas it is applicable to chemical disinfectants and antiseptics to be used in processing, distribution and retailing of food of animal or vegetable origin. It is also applicable to products for all public areas where disinfection is not medically indicated (homes, catering, schools, nurseries, transports, hotels, offices etc.) and products used in packaging, biotechnology, pharmaceutical, cosmetic etc. industries.

This document is also applicable to active substances and products under development for which no area of application has yet been specified.

This document does not refer to methods for testing the toxicological and ecotoxicological properties of products or active substances.

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.

EN 1499, Chemical disinfectants and antiseptics - Hygienic handwash - Test method and requirements (phase 2/step 2)

EN 1500, Chemical disinfectants and antiseptics - Hygienic handrub - Test method and requirements (phase 2/step 2)

EN 1656, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

EN 1657, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

EN 12791, Chemical disinfectants and antiseptics — Surgical hand disinfection — Test method and requirements (phase 2, step 2)

EN 13623, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity against Legionella of chemical disinfectants for aqueous systems - Test method and requirements (phase 2, step 1)

EN 13624, Chemical disinfectants and antiseptics 2 Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area Test method and requirements (phase 2, step 1) dfc9355d86e6/sist-en-14885-2019

EN 13697, Chemical disinfectants and antiseptics - Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas - Test method and requirements without mechanical action (phase 2, step 2)

EN 13704, Chemical disinfectants - Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)

EN 13727, Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of bactericidal activity in the medical area— Test method and requirements (phase 2, step 1)

EN 14204, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

EN 14348, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants - Test methods and requirements (phase 2, step 1)

EN 14349, Chemical disinfectants and antiseptics - Quantitative surface test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in the veterinary area on non-porous surfaces without mechanical action - Test method and requirements (phase 2, step 2)

EN 14476, Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of virucidal activity in the medical area — Test method and requirements (Phase 2/Step 1)

EN 14561, Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of bactericidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2)

EN 14562, Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of fungicidal or yeasticidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2)

EN 14563, Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of mycobactericidal or tuberculocidal activity of chemical disinfectants used for instruments in the medical area - Test method and requirements (phase 2, step 2)

EN 14675, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (Phase 2, step 1)

EN 16437, Chemical disinfectants and antiseptics - Quantitative surface test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in veterinary area on porous surfaces without mechanical action - Test method and requirements (phase 2, step 2)

EN 16438, Chemical disinfectants and antiseptics A Quantitative surface test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area on non-porous surfaces without mechanical action. Test method and requirements (phase 2, step 2)

EN 16615, Chemical disinfectants and antiseptics N Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4-field test) - Test method and requirements (phase 2, step 2)

EN 16616, Chemical disinfectants and antiseptics - Chemical-thermal textile disinfection - Test method and requirements (phase 2, step 2)

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

NOTE Some recommendations on the use of terminology in the areas of chemical disinfection and antisepsis are given in Annex A.

3.1 Chemical disinfectant or antiseptic procedures and product types

3.1.1

antiseptic

product – excluding antibiotics – that is used to bring about antisepsis

3.1.2

antisepsis

application of an antiseptic on living tissues causing an action on the structure or metabolism of microorganisms to a level judged to be appropriate to prevent and/or limit and/or treat an infection of those tissues

3.1.3

chemical disinfectant

product that is capable of chemical disinfection

3.1.4

chemical disinfection

reduction of the number of microorganisms in or on an inanimate matrix, achieved by the irreversible action of a product on their structure or metabolism, to a level judged to be appropriate for a defined purpose

3.1.5

hygienic handrub

treatment of hands by rubbing a product without the addition of water, that is directed against transiently contaminating microorganisms to prevent their transmission regardless of the resident skin flora

3.1.6

hygienic handwash iTeh STANDARD PREVIEW

treatment of hands by washing with product and water, that is directed against transiently contaminating microorganisms to prevent their transmission regardless of the resident skin flora

3.1.7 SIST EN 14885:2019

instrument disinfection and ards. iteh. ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034-

chemical disinfection of certain instrument surfaces in the medical and veterinary areas by immersion

3.1.8

surface disinfection

chemical disinfection of a solid surface, including those of certain medical and veterinary instruments which cannot be immersed, by the application of a product with or without mechanical action

Note 1 to entry: The application includes e.g. circulation, flooding, spraying, fogging, wiping etc.

3.1.9

surgical handrub

preoperative treatment of hands by rubbing a product without the addition of water, that is directed against the flora of microorganisms on hands to prevent the transmission of microorganisms into the surgical wound

3.1.10

surgical handwash

preoperative treatment of hands by washing with product and water, that is directed against the flora of microorganisms on hands to prevent the transmission of microorganisms into the surgical wound

3.1.11

textile disinfection

chemical disinfection of textiles through the application of a product by either immersion in a solution or by processing in a washing machine

3.2 Chemical disinfectant or antiseptic action

3.2.1

bactericide

product that irreversibly inactivates vegetative bacteria under defined conditions

The adjective derived from "bactericide" is "bactericidal". Note 1 to entry:

3.2.2

bactericidal activity

capability of a product or active substance to produce a reduction in the number of viable bacterial cells of relevant test organisms under defined conditions

3.2.3

bacteriostatic activity

capability of a product to inhibit the growth of viable bacterial cells of relevant test organisms under defined conditions

Note 1 to entry: The above term is used in a standard but cannot be used for claims according to Clause 7 c).

3.2.4

fungicide

product that irreversibly inactivates fungi (moulds and yeasts) and their spores under defined conditions iTeh STANDARD PREVIEW

The adjective derived from "fungicide" is "fungicidal". Note 1 to entry:

3.2.5

fungicidal activity

SIST EN 14885:2019

tungicidal activity

https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034capability of a product or active substance to produce a reduction in the number of viable yeast cells and mould spores of relevant test organisms under defined conditions

3.2.6

fungistatic activity

capability of a product to inhibit the germination of mould spores and/or the growth of viable yeast cells of relevant test organisms under defined conditions

The above term is used in a standard but cannot be used for claims according to Clause 7 c). Note 1 to entry:

3.2.7

microbicide

product that irreversibly inactivates vegetative bacteria and/or bacterial endospores and/or fungi (moulds and/or yeasts, including fungal spores) and/or viruses under defined conditions

Note 1 to entry: The above term is a general term, not to be used for claims (see Clause 7, c)).

3.2.8

microbicidal activity

capability of a product or active substance to produce under defined test conditions a reduction in the number of relevant test organisms including viable bacterial cells and/or viable vegetative yeast cells and/or mould spores and/or viable bacterial endospores and/or infectious virus particles

The above term is a general term, not to be used for claims according to Clause 7, c). Note 1 to entry:

3.2.9

mycobactericide

product that irreversibly inactivates mycobacteria under defined conditions

Note 1 to entry: The adjective derived from "mycobactericide" is "mycobactericidal".

3.2.10

mycobactericidal activity

capability of a product or active substance to produce a reduction in the number of viable mycobacterial cells of relevant test organisms under defined conditions

3.2.11

phagocidal activity

capability of a product or active substance to produce a reduction in the number of infectious bacteriophage particles of relevant test organisms under defined conditions

3.2.12

sporicide

product that irreversibly inactivates bacterial endospores under defined conditions

Note 1 to entry: The adjective derived from "sporicide" is "sporicidal".

3.2.13

sporicidal activity iTeh STANDARD PREVIEW capability of a product or active substance to produce a reduction in the number of viable bacterial endospores of relevant test organisms under defined conditions

3.2.14 SIST EN 14885:2019

sporistatic activity (ttps://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034-

capability of a product to inhibit the germination of bacterial endospores under defined conditions

Note 1 to entry: The above term is used in a standard but cannot be used for claims according to Clause 7.

3.2.15

tuberculocide

product that irreversibly inactivates Mycobacterium tuberculosis under defined conditions

Note 1 to entry: The adjective derived from "tuberculocide" is "tuberculocidal".

Note 2 to entry: The test organism used for demonstrating the activity is *Mycobacterium terrae*.

3.2.16

tuberculocidal activity

capability of a product or active substance to produce a reduction in the number of viable cells of the test organism *Mycobacterium terrae* under defined conditions

3.2.17

virucide

product that irreversibly inactivates viruses under defined conditions

The adjective derived from "virucide" is "virucidal". Note 1 to entry:

Note 2 to entry: The term virucide includes the inactivation of vertebrate viruses and/or bacteriophages.

3.2.18

virucidal activity

capability of a product or active substance to produce a reduction in the number of infectious virus particles of relevant test organisms under defined conditions

Limited spectrum virucidal activity is a claim for hygienic handrub and hygienic handwash products using Adenovirus and Murine Norovirus as test organisms, thus including activity against the test viruses and all enveloped viruses.

3.2.19

yeasticide

product that irreversibly inactivates yeasts under defined conditions

Note 1 to entry: The adjective derived from "yeasticide" is "yeasticidal".

3.2.20

yeasticidal activity

capability of a product or active substance to produce a reduction in the number of viable yeast cells of relevant test organisms under defined conditions

3.3 General terms

3.3.1

additional test conditions

additional test conditions item STAND ARD PREVIEW test conditions that are optional and not obligatory, that may be used for additional product claims and that may be found in the same standard or in an additional standard

3.3.2

interfering substance

see "soiling"

SIST EN 14885:2019

https://standards.iteh.ai/catalog/standards/sist/a1bb8cb8-be71-4164-9034dfc9355d86e6/sist-en-14885-2019

3.3.3

neutralizer

chemical agent or formulation that suppresses the residual microbicidal activity of a product or active substance within a specific test but does not inactivate or inhibit the test organism

3.3.4

product

formulation used as a chemical disinfectant or antiseptic

Note 1 to entry: A ready-to-use product is a product used undiluted.

3.3.5

soiling

term "soiling" is represented in the standards by the term "interfering substance"

3.3.5.1

clean conditions

conditions representative of surfaces which have been cleaned satisfactorily and/or are known to contain minimal levels of organic and/or inorganic substances

In the veterinary area, these conditions are called "low level soiling". The term "low level Note 1 to entry: soiling" has been introduced to avoid confusion in the veterinary area where the respective levels of soiling are higher.

3.3.5.2

dirty conditions

conditions representative of surfaces which are known to or may contain organic and/or inorganic substances

Note 1 to entry: In the veterinary area, these conditions are called "high level soiling". The term "high level soiling" has been introduced to avoid confusion in the veterinary area where the respective levels of soiling are higher.

3.3.6

test organism

strain of a microorganism selected for testing products or active substances within a standardized test

Note 1 to entry: For the purpose of this European Standard, the term microorganism includes vegetative bacteria, bacterial spores, yeasts, mould spores and viruses.

4 Procedures for claiming activity

4.1 Category of tests

The tests are categorized on a modular basis as follows:

- Phase 1 tests are quantitative suspension tests to establish that active substances or products under development have bactericidal, fungicidal or sporicidal activity without regard to specific areas of application. Phase 1 tests cannot be used for any product claim.
- Phase 2 comprises two steps standards.iteh.ai)
 - a) **Phase 2, step 1 tests** are quantitative suspension tests to establish that a product has bactericidal, fungicidal, yeasticidal mycobactericidal tuberculocidal, sporicidal or virucidal activity under simulated practical conditions appropriate to its intended use;
 - b) **Phase 2, step 2 tests** are quantitative laboratory tests to establish that a product has bactericidal, fungicidal, yeasticidal, mycobactericidal, tuberculocidal, sporicidal or virucidal activity when applied to a surface or skin under simulated practical conditions (e.g. surface, instrument, handwash and handrub tests);
- **Phase 3 tests** are field tests under practical conditions. Applicable methodologies for this type of test are not yet available, but may be developed in the future. Guidance on the design of phase 3 tests and the use of data from phase 3 tests is provided in Annex C.

NOTE In the following phase 2, step 1 is mostly shortened to "2,1" or "2/1" and phase 2, step 2 to "2,2" or "2/2".