

Chemické dezinfekčné a antiseptické prípravky Kvantitatívna suspenzná skúška na vyhodnotenie baktericídnej aktivity chemického dezinfekčného prípravku vo vodných systémoch proti Legionelle pneumophile

Skúšobná metóda a požiadavky (fáza 2, krok 1)

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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)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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English Version

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)

Antiseptiques et désinfectants chimiques - Essai quantitatif de suspension pour l'évaluation de l'activité bactéricide contre des légionelles des désinfectants chimiques pour les systèmes aqueux - Méthode d'essai et prescriptions (phase 2, étape 1)

Chemische Desinfektionsmittel und Antiseptika -Quantitativer Suspensionsversuch zur Bestimmung der bakteriziden Wirkung gegen Legionella von chemischen Desinfektionsmitteln für wasserführende Systeme - Prüfverfahren und Anforderungen (Phase 2, Stufe 1)

This European Standard was approved by CEN on 19 August 2019.

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

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Contents		Page	
Europ	European foreword		
	troduction		
1	Scope		
2	Normative references		
3	Terms and definitions		
4	Requirements		
5	Test methods		
5.1	Principle		
5.2	Materials and reagents		
5.2.1	Test organism		
5.2.2	Culture media and reagents		
5.3	Apparatus and glassware		
5.3.1	General		
5.3.2	Usual microbiological laboratory equipment		
5.4	Preparation of test organism suspensions and test solutions		
5.4.1	Test organism suspension (test suspension N and validation suspension N_V)		
5.4.2	Product test solution		
5.5	Procedure for assessing the bactericidal activity of the product		
5.5.1	General		
5.5.2	Dilution-neutralization method		
5.5.3	Membrane filtration method		
5.6	Experimental data and calculations		
5.6.1	Explanation of terms and abbreviations		
5.6.2	Calculation		
5.7	Verification of methodology		
5.7.1	General		
5.7.2	Control of weighted mean counts		
5.7.3	Basic limits		
5.8	Expression of results and precision		
	Reduction		
5.8.2	Control of active and non-active product test solution (5.4.2)		
5.8.3	Bactericidal concentration		
5.8.4	Precision, repetition		
5.9	Interpretation of results - conclusion		
5.9.1	General		
5.9.2	Bactericidal activity for general purposes		
5.9.3 5.10	Bactericidal activity for specific purposes Test report		
	•		
Annex	x A (informative) Referenced strains in national collections	28	
Anne	x B (informative) Determination of the bactericidal activity against Legionella pneumophila	29	
Anne	x C (informative) Neutralizer		
	x D (informative) Graphical representation of test procedures		
KINIIO	noranhy	38	

European foreword

This document (EN 13623:2020) 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 April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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 13623:2010.

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:

- the temperature range for incubation of plates from (36 ± 1) °C or (37 ± 1) °C was changed to the range (36 ± 2) °C as given in the new ISO 11731 standard for *Legionella* culture;
- a new paragraph was added to the scope to state that the method is not suitable for continuously dosed products;
- new Annex A " Referenced strains in national collections" was added;
- the calculation errors in Table A.2 (now Table B.2) were corrected.

The changes mentioned above have no impact on the test results obtained with reference to the previous version. Those results are still valid.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13623:2020 (E)

Introduction

This European Standard specifies a suspension test for establishing whether a chemical disinfectant has a bactericidal activity against *Legionella pneumophila* in the fields described in the scope. This standard is specifically prepared for water treatment products, but it may also be possible to use it for other products.

Proliferation of *Legionella* only occurs in waters under certain conditions, and predominantly poses a risk when aerosolised. Many systems containing water do not require treatment. A decision to add chemical disinfectants to any water should be based on an appropriate assessment according to national regulations.

If the product complies with the requirements of this standard, it can be considered bactericidal against *Legionella pneumophila*, but it should not necessarily be inferred that the product is acceptable for a specific site of application without consideration of other relevant factors such as the pH, water, chemistry, temperature and degree of biological fouling at that site of application. It does not take into account the protective effect conveyed by biofilm on the organisms.

The conditions are intended to cover general purposes and to allow reference between laboratories and product types. Each concentration of the chemical disinfectant found by this test corresponds to defined experimental conditions. However, for some applications the recommendations of use of a product may differ and therefore additional test conditions need to be used.

1 Scope

This document specifies a test method and the minimum requirements for bactericidal activity of chemical disinfectant products intended to be used for treatment in aqueous systems against *Legionella pneumophila* that form a homogeneous, physically stable preparation when diluted with buffered ferrous hard water or hard water. Whenever *Legionella pneumophila* poses a risk to human health, this method is suitable for water used in cooling towers and water for general purposes, like spas, pools, showers and other uses. The method is not suitable for electro-chemical disinfection.

The document applies to products used as a single application shock treatment in order to kill *Legionella pneumophila*. It is not suitable for the evaluation of those products that are dosed continuously into water systems to control the growth of *Legionella pneumophila*.

NOTE 1 The method described is intended to determine the activity of commercial formulations or active substances under the conditions in which they are used.

NOTE 2 This method corresponds to a phase 2 step 1 test.

NOTE 3 This method does not take into account the fact that *Legionella pneumophila* is often found in cells of amoebae and/or biofilms and that thereby a product's activity against the bacteria may be reduced.

EN 14885 specifies in detail the relationship of the various tests to one another and to "use recommendation".

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 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

EN 14885, Chemical disinfectants and antiseptics — Application of European Standards for chemical disinfectants and antiseptics

koniec náhľadu – text ďalej pokračuje v platenej verzii STN