

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)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13704:2018 sisaldab Euroopa standardi EN 13704:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 13704:2018 consists of the English text of the European standard EN 13704:2018.
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English Version

**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)**

Désinfectants chimiques - Essai quantitatif de
suspension pour l'évaluation de l'activité sporicide des
désinfectants chimiques utilisés dans le domaine de
l'agro-alimentaire, dans l'industrie, dans les domaines
domestiques et en collectivité - Méthode d'essai et
prescriptions (phase 2, étape 1)

Chemische Desinfektionsmittel - Quantitativer
Suspensionversuch zur Bestimmung der sporiziden
Wirkung chemischer Desinfektionsmittel in den
Bereichen Lebensmittel, Industrie, Haushalt und
öffentliche Einrichtungen - Prüfverfahren und
Anforderungen (Phase 2, Stufe 1)

This European Standard was approved by CEN on 16 March 2018.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 13704:2018) 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of an identical text or by endorsement, at the latest by January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.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 13704:2002.

It was revised in order to include the spore susceptibility controls, to better detail spore preparation procedures and to harmonize counting and elaboration of the results with the other CEN/TC 216 current standards.

EN 13704:2018 includes the following changes compared to EN 13704:2002:

- inclusion of spore suspension susceptibility controls;
- modification of spore preparation procedures;
- inclusion of spore maturation time;
- harmonization of counting and elaboration of the results with the other CEN/TC 216 current standards;
- deletion of obligatory conditions for contact time and temperature;
- inclusion of minimum and maximum conditions for contact time and temperature;
- inclusion of dirty conditions.

Results obtained with the previous version are not 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, 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 European Standard describes a suspension test method for establishing whether a chemical disinfectant has or does not have a sporicidal activity in the fields described in Clause 1.

The laboratory test closely simulates practical conditions of application. Chosen conditions (contact time, temperature, in suspension, etc.) reflect parameters which are found in practical situations including conditions which can influence the action of disinfectants. Each utilization concentration found from this test corresponds to defined experimental conditions.

The conditions are intended to cover general purposes and to allow reference between laboratories and product types.

However for some applications the recommendations of use of a product can differ and therefore additional test conditions need to be used.

1 Scope

This document specifies a test method (phase 2/step 1) and the minimum requirements for sporicidal activity of chemical disinfectant products that form a homogeneous, physically stable preparation in hard water and that are used in food, industrial, domestic and institutional areas, excluding areas and situations where disinfection is medically indicated and excluding products used on living tissues except those for hand hygiene in the above considered areas.

This European Standard applies at least to the following:

a) processing, distribution and retailing of:

1) food of animal origin:

- milk and milk products;
- meat and meat products;
- fish, seafood, and related products;
- eggs and egg products;
- animal feeds;
- etc.;

2) food of vegetable origin:

- beverages;
- fruits, vegetables and derivatives (including sugar, distillery, etc.);
- flour, milling and baking;
- animal feeds;
- etc.;

b) institutional and domestic areas:

- catering establishments;
- public areas;
- public transports;
- schools;
- nurseries;
- shops;
- sports rooms;
- waste containers (bins, etc.);

- hotels;
- dwellings;
- clinically non sensitive areas of hospitals;
- offices;
- etc.;

c) other industrial areas:

- packaging material;
- biotechnology (yeast, proteins, enzymes, etc.);
- pharmaceutical;
- cosmetics and toiletries;
- textiles;
- space industry, computer industry;
- etc.

Using this European Standard, it is not possible to determine the sporicidal activity of undiluted product as some dilution is always produced by adding the inoculum and interfering substance. Products can only be tested at a concentration of 80 % or less.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14885 apply.