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Quantitative determination of antibacterial activity of ceramic tile surfaces — Test methods —

Part 1: Ceramic tile surfaces with incorporated antibacterial agents

Détermination quantitative de l'activité antibactérienne des surfaces des carreaux céramiques — Méthodes d'essai —

Partie 1: Carreaux céramiques incorporant des agents antibactériens en surface

Reference number
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Materials ... **2**
4.1 Bacterial strains ... 2
4.2 Culture media and solutions ... 2
4.2.1 Non-ionic surfactant ... 2
4.2.2 Nutrient broth ... 2
4.2.3 1/500 nutrient broth ... 3
4.2.4 Nutrient agar ... 3
4.2.5 Soybean-casein digest broth with lecithin and polysorbate 80 (SCDLP) ... 3
4.2.6 Phosphate buffer saline (PBS) ... 3

5 Test specimen ... **4**
5.1 Size ... 4
5.2 Control ... 4
5.3 Precondition ... 4
5.4 Number of test specimen ... 4

6 Procedure ... **5**
6.1 Preparation of test inoculum ... 5
6.2 Adhesive film ... 5
6.3 Inoculation of test specimens ... 5
6.4 Recovery of bacteria from non-treated control specimens at time t = 0 h ... 5
6.5 Incubation ... 6
6.6 Recovery of bacteria from post incubation test specimens ... 7
6.7 Enumeration of viable bacterial count from test specimen washout ... 7

7 Validation and calculations ... **7**
7.1 General ... 7
7.2 Criteria for a valid test ... 7
7.3 Calculation of antibacterial activity ... 8

8 Test report ... **8**

Bibliography ... **10**

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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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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 189, *Ceramic tile*.

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Quantitative determination of antibacterial activity of ceramic tile surfaces — Test methods —

Part 1:
Ceramic tile surfaces with incorporated antibacterial agents

1 Scope

This document specifies test methods for evaluating the antibacterial activity of glazed and unglazed ceramic tile surfaces with incorporated antibacterial agents.

Secondary effects on ceramic tile surfaces due to antibacterial treatments, such as changes in chemical resistance, stain resistance or small colour differences, are not covered by this document. For chemical resistance refer to ISO 10545-13, for stain resistance refer to ISO 10545-14 and for colour differences refer to ISO 10545-16.

Any results obtained with this document will always refer to this document and the conditions used. Results obtained with this document indicate antibacterial activity under the specified experimental conditions used herein, and do not reflect activity under other circumstances where a variety of factors, such as temperature, humidity, different bacterial species, nutrient conditions, etc., are considered.

2 Normative references

There are no normative references in this document.

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:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
antibacterial
condition where growth of bacteria on the surfaces of product is suppressed or describing the effect of an agent which suppresses the growth of bacteria on the surface of products

3.2
antibacterial agent
agent that kills or inhibits growth of bacteria on the surfaces of products by the use of an *antibacterial* (3.1) surface treatment or a compounded agent

3.3
antibacterial activity
difference in the logarithm of the viable cell count found on an antibacterial-treated product and an untreated control after inoculation with and incubation of bacteria

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