ISO 17721-2:2021 (E)

Quantitative determination of antibacterial activity of ceramic tile surfaces — Test methods — Part 2: Ceramic tile surfaces with incorporated photocatalytic antibacterial agents

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Materials

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

5 Test specimen

- 5.1 Size
- 5.2 Control
- 5.3 Precondition
- 5.4 Number of test specimen

6 Procedure

- 6.1 Preparation of test inoculum
- 6.2 Adhesive film
- 6.3 Inoculation of test specimens
- 6.4 Recovery of bacteria from non-treated control specimens at time t = 0 h
- 6.5 UV irradiation conditions
- 6.6 Dark conditions
- 6.7 Recovery of bacteria from post irradiation and dark condition test specimens
- 6.8 Enumeration of viable bacterial count from test specimen washout

7 Validation and calculations

- 7.1 General
- 7.2 Criteria for a valid test
- 7.3 Calculation of antibacterial activity

8 Test report

Page count: 11