ISO 20150:2019 (E)

Footwear and footwear components — Quantitative challenge test method to assess antifungal activity

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Safety

6 Apparatus

7 Reagents and culture medium

7.1 General
7.2 Water
7.3 Malt medium
7.3.1 Composition
7.3.2 Preparation
7.4 Malt extract agar (MEA) medium
7.4.1 Composition
7.4.2 Preparation
7.5 Physiological saline (sodium chloride solution)
7.5.1 Composition
7.5.2 Preparation
7.6 Wetting agent (nonionic surfactant)
7.7 Buffer solution
7.7.1 Buffer stock
7.7.2 Preparation of buffer stock
7.7.3 Preparation of buffer solution

8 Test microorganisms

9 Preparation of test inoculums

9.1 Indications for use of strains
9.2 Preparation of inoculums of Candida albicans
9.3 Preparation of test spore suspension of filamentous micro-fungi

10 Preparation of test specimens

10.1 General
10.2 Test specimen
10.3 Pre-treatment of test specimen

11 Test procedure

11.1 Summary of test methods
11.2 Dynamic challenge tests
11.2.1 Inoculation
11.2.2 Neutralization and elution after inoculation (time 0 h)
11.2.3 Incubation
11.2.4 Neutralization and elution after incubation (time 24 h)
11.2.5 Determination of the number of viable micro-fungi
11.3 Static challenge test

11.3.1 Inoculation
11.3.2 Neutralization and elution after inoculation (time 0 h)
11.3.3 Incubation
11.3.4 Neutralization and elution after incubation (time 24 h)
11.3.5 Determination of the number of viable micro-fungi

12 Expression of results

12.1 Calculation of the number of viable micro-fungi
12.2 Judgement of test effectiveness
12.3 Calculation of antifungal activity ratio

13 Test report

Page count: 12