

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 <i>Candida albicans</i>
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