ISO 13629-1:2012-08 (E)

Textiles - Determination of antifungal activity of textile products - Part 1: Luminescence method

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative reference 1

3 Termsanddefinitions 1

4 Principle 2

5 Safety precaution 2

6 Reference fungi 2

7 Apparatus 2

8 Reagents and culture media 3
8.1 General 3
8.2 Pure water 4
8.3 Anionic surfactant 4
8.4 Luminescent reagents, reagents and buffer solutions 4
8.5 Culture medium 5

9 Fungus preservation and use 6
9.1 Fungus preservation 6
9.2 Use of fungus 7

10 Spore suspension 7
10.1 Suspending spores in culture media 8
10.2 Collection and dispersion of spore suspension from a culture medium 8
10.3 Filtering to remove hyphae and spore threads 8
10.4 Using centrifugal separation and resuspension to remove supernatant 8
10.5 Confirmingtheconcentrationofsporesuspension 9
10.6 Adjusting spore suspension for testing 9

11 Preparing the ATP calibration curve 9

12 Testing method 10
12.1 Preparation of test specimens and inoculation 10
12.2 Incubation 12

13 Measurement of luminescence intensity 12
13.1 Absorption method 12
13.2 Transfer method 13

14 Calculation 14
14.1 Judgment of test effectiveness 14
14.2 Calculation of antifungal activity value 14

15 Test report 15

Annex B (informative)Antifungalefficacy 17

Bibliography 18