

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 | Terms and definitions | 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 | Confirming the concentration of spore suspension | 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 |