



**International
Standard**

ISO 13629-1

**Textiles — Determination of
antifungal activity of textile
products —**

**Part 1:
Luminescence method**

*Textiles — Détermination de l'activité antifongique des produits
textiles —*

Partie 1: Méthode par luminescence

**Second edition
2025-05**

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 13629-1:2025

<https://standards.iteh.ai/catalog/standards/iso/fd865ccb-2162-4fd0-8888-21d19936990e/iso-13629-1-2025>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 13629-1:2025

<https://standards.iteh.ai/catalog/standards/iso/fd865ccb-2162-4fd0-8888-21d19936990e/iso-13629-1-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Warning	2
6 Reference fungi	2
7 Apparatus	2
8 Reagents and culture media	4
8.1 General	4
8.2 Pure water	4
8.3 Anionic surfactant	4
8.4 Luminescent reagents, reagents and buffer solutions	4
8.4.1 General	4
8.4.2 ATP standard stock solution (1×10^{-3} mol/l) referred to as ATP standard hereafter	4
8.4.3 Buffer solution for ATP luminescent reagent	4
8.4.4 ATP luminescent reagent	5
8.4.5 ATP extraction reagent	5
8.4.6 ATP eliminating reagent	5
8.4.7 Physiological saline solution	5
8.4.8 Sterilized water containing anionic surfactant	6
8.5 Culture medium	6
8.5.1 General	6
8.5.2 Sabouraud dextrose broth (SDB)	6
8.5.3 Potato dextrose agar (PDA)	6
8.5.4 Slant culture	6
8.5.5 Sabouraud dextrose agar (SDA)	6
9 Fungus preservation and use	7
9.1 Fungus preservation	7
9.2 Use of fungus	7
10 Spore suspension	7
10.1 General	7
10.2 Suspending spores in culture media	8
10.3 Collection and dispersion of spore suspension from a culture medium	8
10.4 Filtering to remove hyphae and spore threads	8
10.5 Using centrifugal separation and resuspension to remove supernatant	8
10.6 Confirming the concentration of spore suspension	9
10.7 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
12.1.1 General	10
12.1.2 Absorption method	10
12.1.3 Transfer method	12
12.2 Incubation	12
12.2.1 Absorption method	12
12.2.2 Transfer method	12

13	Measurement of luminescence intensity	12
13.1	Absorption method.....	12
13.2	Transfer method.....	14
14	Calculation	14
14.1	Judgment of test effectiveness.....	14
14.2	Calculation of antifungal activity value.....	15
15	Judgement of antifungal efficacy	15
16	Test report	15
Annex A (normative) Fungi used in this document		16
Annex B (informative) Antifungal efficacy		17
Bibliography		18

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 13629-1:2025

<https://standards.iteh.ai/catalog/standards/iso/fd865ccb-2162-4fd0-8888-21d19936990e/iso-13629-1-2025>