

INTERNATIONAL
STANDARD

ISO
19574

First edition
2022-01

**Footwear and footwear components —
Qualitative test method to assess
antifungal activity (growth test)**

*Chaussures et composants de chaussures — Méthode d'essai
qualitative pour évaluer l'activité antifongique (essai de croissance)*



Reference number
ISO 19574:2022(E)

© ISO 2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

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	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Safety	2
6 Apparatus	2
7 Reagents and culture medium	3
7.1 General	3
7.2 Water	3
7.3 Malt Extract Agar (MEA) medium	3
7.3.1 Composition	3
7.3.2 Preparation	3
7.4 Physiological saline (sodium chloride solution)	4
7.4.1 Composition	4
7.4.2 Preparation	4
7.5 Wetting agent (nonionic surfactant)	4
7.6 Buffer solution	4
7.6.1 Buffer stock	4
7.6.2 Preparation of buffer stock	4
7.6.3 Preparation of buffer solution	4
8 Test microorganisms	4
9 Preparation of test spore suspension	5
10 Preparation of test specimens	6
10.1 General	6
10.2 Test and control specimens	6
10.3 Pre-treatment of test and control specimens	6
11 Test procedure	7
11.1 Inoculation of solidified agar plates	7
11.2 Arrangement of test and control specimens	7
11.3 Inoculation of test and control specimens	7
11.4 Incubation	7
11.5 Viability control of the spores	7
11.6 Assessment of micro-fungal growth	7
12 Expression of results	8
13 Test report	8
Bibliography	10