

# TECHNICAL SPECIFICATION

ISO/TS  
10832

First edition  
2009-10-15

---

## Soil quality — Effects of pollutants on mycorrhizal fungi — Spore germination test

*Qualité du sol — Effets des polluants vis-à-vis des champignons mycorhizogènes — Essai de germination des spores*



Reference number  
ISO/TS 10832:2009(E)

© ISO 2009

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

ISO Central Secretariat



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2009

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office

Case postale 56 • CH-1211 Geneva 20

Tel. + 41 22 749 01 11

Fax + 41 22 749 09 47

E-mail [copyright@iso.org](mailto:copyright@iso.org)

Web [www.iso.org](http://www.iso.org)

Published in Switzerland

**Contents**

Page

<b>Foreword</b>	iv
<b>Introduction</b>	v
<b>1 Scope</b>	1
<b>2 Normative references</b>	1
<b>3 Terms, definitions and abbreviated terms</b>	1
<b>4 Test methods</b>	2
<b>4.1 Principle</b>	2
<b>4.2 Standard conditions</b>	3
<b>5 Test materials</b>	3
<b>5.1 Distilled water</b>	3
<b>5.2 Biological material</b>	3
<b>5.3 Control substrate</b>	3
<b>5.4 Reference substance</b>	4
<b>5.5 Trypan blue</b>	4
<b>5.6 Apparatus</b>	4
<b>6 Storage and preparation of samples</b>	5
<b>7 Procedure</b>	5
<b>7.1 Biological system</b>	5
<b>7.2 Preparation of the test mixture</b>	6
<b>7.3 Setting up of the test</b>	7
<b>7.4 Choice of the tested mass fraction</b>	8
<b>7.5 Culture condition</b>	8
<b>7.6 End of the assay</b>	8
<b>8 Calculation and expression of results</b>	9
<b>8.1 Calculation</b>	9
<b>8.2 Expression of results</b>	9
<b>9 Validity criteria</b>	9
<b>10 Test report</b>	9
<b>Annex A (informative) Experimental device</b>	11
<b>Annex B (informative) Example of a table of results</b>	12
<b>Annex C (informative) Example of results</b>	13
<b>Annex D (informative) Precision data</b>	15
<b>Bibliography</b>	17