



International
Standard

ISO 6639-4

**Cereals and pulses —
Determination of hidden insect
infestation —**

**Part 4:
Rapid methods**

*Céréales et légumineuses — Détermination de l'infestation
cachée par les insectes —*

Partie 4: Méthodes rapides

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

Document Preview

[ISO 6639-4:2025](#)

<https://standards.iteh.ai/catalog/standards/iso/e79ad8d4-5226-485d-b4a9-831ccf626f28/iso-6639-4-2025>

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

[ISO 6639-4:2025](#)

<https://standards.iteh.ai/catalog/standards/iso/e79ad8d4-5226-485d-b4a9-831ccf626f28/iso-6639-4-2025>



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
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Method by determination of carbon dioxide production	2
4.1 Principle	2
4.2 Apparatus	2
4.3 Sampling	4
4.4 Procedure	4
4.4.1 Preparation of test sample	4
4.4.2 Preparation of container and test portion	4
4.4.3 Carbon dioxide determination	5
4.4.4 Determination times	5
4.5 Expression of results	5
4.6 Interpretation of results	5
4.7 Test report	5
5 Whole grain flotation method	6
5.1 Principle	6
5.2 Apparatus	6
5.3 Sampling	6
5.4 Test solution	6
5.5 Procedure	7
5.5.1 Preparation of test sample and test portion	7
5.5.2 Determination	7
5.5.3 Number of determinations	8
5.6 Expression of results	8
5.6.1 Calculation	8
5.6.2 Repeatability	8
5.7 Interpretation of results	9
5.8 Test report	9
6 Acoustic method operating on a grain sample	9
6.1 Principle	9
6.2 Apparatus	9
6.3 Sampling	10
6.4 Procedure	10
6.4.1 General	10
6.4.2 Preparation of the test sample and test portion	10
6.4.3 Determination	11
6.4.4 Number of determinations	11
6.5 Expression of results	11
6.6 Interpretation of results	11
6.7 Test report	11
7 On-site assessment acoustic method	12
7.1 Principle	12
7.2 Apparatus	12
7.3 On-site acoustic probing	12
7.4 Operating method	12
7.5 Assessment	12
7.5.1 General	12
7.5.2 <i>In situ</i> acoustic probing a grain bulk in a means of transport	12
7.5.3 Operation of on-site acoustic probing in a static grain mass	13
7.5.4 Number of measurements	14
7.6 Expression of results	14

ISO 6639-4:2025(en)

7.7	Interpretation of results	14
7.8	Test report	14
Bibliography		15

iTeh Standards

(<https://standards.iteh.ai>)

Document Preview

[ISO 6639-4:2025](#)

<https://standards.iteh.ai/catalog/standards/iso/e79ad8d4-5226-485d-b4a9-831ccf626f28/iso-6639-4-2025>