

SLOVENSKI STANDARD
SIST-TS CEN ISO/TS 29843-2:2014
01-december-2014

Kakovost tal - Določanje mikrobne raznolikosti tal - 2. del: Analiza fosfolipidnih maščobnih kislin (PLFA) z enostavno ekstrakcijsko metodo PLFA (ISO/TS 29843-2:2011)

Soil quality - Determination of soil microbial diversity - Part 2: Method by phospholipid fatty acid analysis (PLFA) using the simple PLFA extraction method (ISO/TS 29843-2:2011)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Qualité du sol - Détermination de la diversité microbienne du sol - Partie 2 : Méthode par analyse des acides gras phospholipidiques (PLFA) en utilisant la méthode simple d'extraction des PLFA (ISO/TS 29843-2:2011)

Ta slovenski standard je istoveten z: CEN ISO/TS 29843-2:2014

ICS:

13.080.30 Biološke lastnosti tal Biological properties of soils

SIST-TS CEN ISO/TS 29843-2:2014 en

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 29843-2:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN ISO/TS 29843-2

October 2014

ICS 13.080.30

English Version

**Soil quality - Determination of soil microbial diversity - Part 2:
Method by phospholipid fatty acid analysis (PLFA) using the
simple PLFA extraction method (ISO/TS 29843-2:2011,
Corrected version 2012-02-01)**

Qualité du sol - Détermination de la diversité microbienne
du sol - Partie 2 : Méthode par analyse des acides gras
phospholipidiques (PLFA) en utilisant la méthode simple
d'extraction des PLFA (ISO/TS 29843-2:2011)

Bodenbeschaffenheit - Bestimmung der Diversität von
Bodenmikroorganismen - Teil 2: Verfahren mittels
Phospholipidfettsäure(PLFA)-Analyse unter Verwendung
des einfachen PLFA-Extraktionsverfahrens (ISO/TS 29843-
2:2011)

This Technical Specification (CEN/TS) was approved by CEN on 11 August 2014 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

https://standards.iteh.ai/iso/iso/ta1/td1/iso/110681/3_59494/p2_8625



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

CEN ISO/TS 29843-2:2014 (E)

Contents	Page
Foreword.....	3

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

[SIST-TS CEN ISO/TS 29843-2:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>

Foreword

The text of ISO/TS 29843-2:2011, Corrected version 2012-02-01 has been prepared by Technical Committee ISO/TC 190 "Soil quality" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 29843-2:2014 by Technical Committee CEN/TC 345 "Characterization of soils" the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO/TS 29843-2:2011, Corrected version 2012-02-01 has been approved by CEN as CEN ISO/TS 29843-2:2014 without any modification.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TS CEN ISO/TS 29843-2:2014

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 29843-2:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>

TECHNICAL SPECIFICATION

**ISO/TS
29843-2**

First edition
2011-09-15

Corrected version
2012-0G-EF

Soil quality — Determination of soil microbial diversity —

Part 2:

Method by phospholipid fatty acid analysis (PLFA) using the simple PLFA extraction method

iTeh STANDARD PREVIEW

Qualité du sol — Détermination de la diversité microbienne du sol —
(standards.iteh.ai)

Partie 2: Méthode par analyse des acides gras phospholipidiques (PLFA) en utilisant la méthode simple d'extraction des PLFA

[SIST-TS CEN ISO/TS 29843-2:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>

Reference number
ISO/TS 29843-2:2011(E)



iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 29843-2:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

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
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Symbols and abbreviated terms (except chemical products and reagents)	1
4 Principle	1
5 Test materials	2
5.1 Soil	2
5.2 Reagents	2
5.3 Apparatus	4
6 Procedures	5
6.1 Lipid extraction (Bligh-Dyer extraction)	5
6.2 Separation of lipids by Si column	5
6.3 Derivatization — Transmethylation — Clean-up	5
6.4 PLFA analysis	6
Bibliography	7

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TS CEN ISO/TS 29843-2:2014
<https://standards.iteh.ai/catalog/standards/sist/b1068bf3-5949-4ea2-8635-9bb03f078751/sist-ts-cen-iso-ts-29843-2-2014>