

# SLOVENSKI STANDARD

## SIST-TS CEN ISO/TS 29843-2:2021

01-november-2021

Nadomešča:

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

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**Kakovost tal - Določevanje mikrobne raznolikosti tal - 2. del: Analiza fosfolipidnih maščobnih kislin (PLFA) z enostavno ekstrakcijsko metodo PLFA (ISO/TS 29843-2:2021)**

Soil quality - Determination of soil microbial diversity - Part 2: Method by phospholipid fatty acid analysis (PLFA) using the simple PLFA extraction method (ISO/TS 29843-2:2021)

**iTeh STANDARD PREVIEW**

(standard.iteh.ai)  
Bodenbeschaffenheit - Bestimmung der Diversität von Bodenmikroorganismen - Teil 2: Verfahren mittels Phospholipidfettsäure(PLFA)-Analyse unter Verwendung des einfachen PLFA-Extraktionsverfahrens (ISO/TS 29843-2:2021)

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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 29843-2:2021)

**Ta slovenski standard je istoveten z: CEN ISO/TS 29843-2:2021**

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**ICS:**

13.080.30      Biološke lastnosti tal      Biological properties of soils

**SIST-TS CEN ISO/TS 29843-2:2021      en,fr,de**

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

**CEN ISO/TS 29843-2**

July 2021

ICS 13.080.30

Supersedes CEN ISO/TS 29843-2:2014

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-  
2:2021)**

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-  
2:2021)

Bodenbeschaffenheit - Bestimmung der Diversität von  
Bodenmikroorganismen - Teil 2: Verfahren mittels  
Phospholipidfettsäure(PLFA)-Analyse unter  
Verwendung des einfachen PLFA-  
Extraktionsverfahrens (ISO/TS 29843-2:2021)

This Technical Specification (CEN/TS) was approved by CEN on 28 June 2021 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.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (CEN ISO/TS 29843-2:2021) has been prepared by Technical Committee ISO/TC 190 "Soil quality" in collaboration with Technical Committee CEN/TC 444 "Environmental characterization of solid matrices" 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 shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TS 29843-2:2014.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN websites.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO/TS 29843-2:2021 has been approved by CEN as CEN ISO/TS 29843-2:2021 without any modification.

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TECHNICAL  
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29843-2Second edition  
2021-07

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**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  
(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*<https://standards.iteh.ai/catalog/standards/sist/c7360b6b-639e-4383-9c33-c1fcbcb35cd/sist-ts-cen-iso-ts-29843-2-2021>Reference number  
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## ISO/TS 29843-2:2021(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 4, *Biological characterization*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 444, *Environmental characterization of solid matrices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/TS 29843-2:2011), which has been technically revised.

The main changes compared to the previous edition are as follows:

- addition of specification for qualitative and quantitative analysis of PLFAs;
- use of BAME (qualitative) or FAME (quantitative) standards;
- use of GC-MS apparatus;
- precisions in 7.2 and 7.3;
- possibility to use commercial cartridges in addition to, or replacement of, home-made cartridges;
- update of bibliographic references.

A list of all the parts in the ISO/TS 29843 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).