SLOVENSKI STANDARD
kSIST-TS FprCEN/TS 17766:2021

01-december-2021

Organska in organsko-mineralna gnojila - Ekstrakcija z vodo za določevanje elementov

Organic and organo-mineral fertilizers - Extraction by water for subsequent determination of elements

Organische und organisch-mineralische Düngemittel - Extraktion durch Wasser zur anschließenden Bestimmung der Elemente

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Ta slovenski standard je istoveten z: FprCEN/TS 17766

ICS:

65.080 Gnojila Fertilizers

kSIST-TS FprCEN/TS 17766:2021 en,fr,de

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TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

FINAL DRAFT FprCEN/TS 17766

November 2021

ICS 65.080

English Version

Organic and organo-mineral fertilizers - Extraction by water for subsequent determination of elements

Organische und organisch-mineralische Düngemittel - Extraktion durch Wasser zur anschließenden Bestimmung der Elemente

This draft Technical Specification is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 260.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (FprCEN/TS 17766:2021) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

This document is currently submitted to the Vote on TS.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

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1 Scope

This document specifies a method for the extraction by water for the subsequent determination of elements.

The extracts are suitable for analysis using FprCEN/TS 17774.

NOTE Alternatively, inductively coupled plasma mass spectrometry (ICP-MS) can be used for the measurement if the user proves that the method gives the same results.

The method is applicable to organic and organo-mineral fertilizers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

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4 Principle

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Extraction in water by shaking under the specified conditions.

5 Sampling and sample preparation

Sampling and sample preparation should be performed carefully, following the principles described in EN 1482 (all parts) with appropriate adaptations, required to account for specificities of organic and organo-mineral fertilizers.

6 Reagents

6.1 Water, distilled or demineralized.

7 Apparatus

7.1 500 ml graduated flask, e.g. Stohmann.

7.2 Rotary shaker, 35 turns per minute to 40 turns per minute.

7.3 Dry pleated filter, Phosphate free.

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8 Procedure

8.1 Test portion

Weigh, to the nearest 0,001 g, 5 g of the laboratory sample and place it in a graduated flask (7.1).

8.2 Extraction

Add to the test portion in the flask 450 ml of water (6.1), the temperature of which shall be between 20 °C and 25 °C.

Shake in the rotary shaker (7.2) for 30 min.

Then make up to the mark with water, mix thoroughly by shaking and filter through a dry pleated filter (7.3).

The extracts can be kept at (4 ± 3) °C at least for two days before determination.

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